

GenCore version 5.1.8  
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OM nucleic - nucleic search, using sw model  
Run on: May 6, 2006, 19:28:56 ; Search time 2414 Seconds  
(without alignments)  
8453.521 Million cell updates/sec

Title: US-10-009-579A-5\_COPY\_3188\_3546  
Perfect score: 359  
Sequence: 1 cccggctaatttgcattt.....ttttttatagttcttgaa 359

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

GenEmbl:\*

- 1: gb\_ba.\*
- 2: gb\_in.\*
- 3: gb\_env.\*
- 4: gb\_om.\*
- 5: gb\_ov.\*
- 6: gb\_pat.\*
- 7: gb\_ph.\*
- 8: gb\_pr.\*
- 9: gb\_ro.\*
- 10: gb\_sts.\*
- 11: gb\_ey.\*
- 12: gb\_un.\*
- 13: gb\_vi.\*
- 14: gb\_htg.\*
- 15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	359	100.0	4069	AY148099	Homo sapi
2	359	100.0	4282	AX254778	Sequence
3	359	100.0	171987	AC079775	Homo sapi
4	132.8	37.0	56173	AC011390	Homo sapi
5	132.8	37.0	130985	HS243213	Homo sapi
6	132.8	37.0	133553	AC008627	Homo sapi
7	132.4	36.9	84710	HSB358N2	Human DNA
8	130.8	36.4	176075	AC017079	Homo sapi
9	127.4	35.5	162509	AL137852	Human DNA
10	127	35.4	568	BD152002	Primer fo
11	127	35.4	568	AX871940	Sequence
12	126.8	35.3	139255	AL512642	Human DNA
13	126.8	35.3	148285	AL451053	Homo sapi
14	126.8	35.3	192096	AL590133	Human DNA
15	126	35.1	110459	AC117378	Homo sapi
16	126	35.1	113802	AL137003	Human DNA
17	126	35.1	132070	AC003663	Homo sapi
18	126	35.1	160298	AC067818	Homo sapi

19	126	35.1	161139	8	AC132812	Homo sapi
20	125.8	35.0	138604	8	AC104826	Homo sapi
21	125.8	35.0	160457	8	AC006016	Homo sapi
22	125.8	35.0	169334	14	AC025406	Homo sapi
23	125.8	35.0	172464	14	AC140889	Homo sapi
24	125.8	35.0	201312	14	AC067900	Homo sapi
25	125.6	35.0	54666	8	AC073487	Homo sapi
26	125.6	35.0	105736	14	AC090678	Homo sapi
27	125.6	35.0	197137	14	AC024384	Human DNA
28	125.4	34.9	88119	8	AL450325	Homo sapi
29	125.4	34.9	175067	14	AC040898	Homo sapi
30	125.4	34.9	180754	14	AC148963	Homo sapi
31	125	34.8	61371	14	AC105135	Homo sapi
32	125	34.8	190579	14	AC018736	Homo sapi
33	125	34.8	190836	8	AC105910	Homo sapi
34	124.8	34.8	52468	14	AC022628	Homo sapi
35	124.8	34.8	186563	8	AC104452	Homo sapi
36	124.8	34.8	186925	14	AC087503	Homo sapi
37	124.6	34.7	161780	8	AC145893	Pan trogl
38	124.4	34.7	68470	14	AC116011	Homo sapi
39	124.4	34.7	85123	8	AC125616	Homo sapi
40	124.4	34.7	137242	8	AC063943	Homo sapi
41	124.4	34.7	183228	8	AC010547	Homo sapi
42	124.4	34.7	203050	14	HS44N10	Homo sapien
43	124.4	34.7	206943	14	AC138848	Homo sapi
44	124.4	34.7	208497	14	AC090584	Homo sapi
45	124.4	34.7	209512	8	CNS0180V	Human chr

ALIGNMENTS

RESULT 1  
AY148099  
LOCUS Homo sapiens EGP2 (TACSTD1) gene, promoter region and 5'UTR.  
DEFINITION Homo sapiens EGP2 (TACSTD1) gene, promoter region and 5'UTR.  
ACCESSION AY148099  
VERSION AY148099.1 GI:24935271

ORGANISM Homo sapiens (human)

REFERENCE 1 (bases 1 to 4069)

AUTHORS McLaughlin,P.M.J., Trzpis,M., Kroesen,B.-J., Helfrich,W., Terpstra,P., Ruiters,M.H.C., de Leij,L.F.M.H. and Harmsen,M.C.

TITLE Use of the EGP-2 promoter for targeted expression of heterologous genes in carcinoma-derived cell lines

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 4069)

AUTHORS McLaughlin,P.M.J., Trzpis,M., Kroesen,B.-J., Helfrich,W., Terpstra,P., Ruiters,M.H.C., de Leij,L.F.M.H. and Harmsen,M.C.

TITLE Direct Submission

JOURNAL Submitted (04-SEP-2002) Path-LabMed-Mol-Biol, University Groningen, Hanzeplein 1, Groningen 9713GZ, The Netherlands

FEATURES Location/Qualifiers

source 1..4069

gene /organism="Homo sapiens"

/mol\_type="genomic DNA"

/db\_xref="taxon:9606"

/chromosome="2"

/map="2p16.3"

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/genes="TACSTD1"

/note="synonyms: EGP2, GA733-2"

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/gene="TACSTD1"

3975..>4069

/genes="TACSTD1"

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/notes="putative transcription start"

3975..>4069

5'UTR

ORIGIN

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Db 3185 CCGGGCTAATTTTGATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 3244

Qy 61 TCGAACTTCAAACTCAGGTGATTCGCCGCCCTCGGCCTCCCAAAGTGCTAGGATTACAG 120  
Db 3245 TCGAACTTCAAACTCAGGTGATTCGCCGCCCTCGGCCTCCCAAAGTGCTAGGATTACAG 3304

Qy 121 CGGTGAGCACCGCGCTCAGCTGGGACACCTTTTCTTACATCTTCAAGTGCTAGAAAT 180  
Db 3305 CGGTGAGCACCGCGCTCAGCTGGGACACCTTTTCTTACATCTTCAAGTGCTAGAAAT 3364

Qy 181 GCTTATGAACAACGAAAAAGAATTATTAGAGTAATAATAAGAAAACACTCATTTTCTTC 240  
Db 3365 GCTTATGAACAACGAAAAAGAATTATTAGAGTAATAATAAGAAAACACTCATTTTCTTC 3424

Qy 241 CCAAGAGAGCCAAAGATTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
Db 3425 CCAAGAGAGCCAAAGATTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3484

Qy 301 AGAGGTATTAATTAATTCGAGGTAAAGCTCAAAAGTCTTTTTTATAGTCTTCTGGAA 359  
Db 3485 AGAGGTATTAATTAATTCGAGGTAAAGCTCAAAAGTCTTTTTTATAGTCTTCTGGAA 3543

RESULT 2

AX254778 4282 bp DNA linear PAT 10-OCT-2001

LOCUS AX254778 Sequence 5 from Patent WO0171015.

DEFINITION AX254778

ACCESSION AX254778

VERSION AX254778.1 GI:16074440

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 de Leij,J.F., Ruiters,M.H., McLaughlin,P.M., Harmsen,M.C., van der Molen,H., Terpstra,P. and Dokter,W.H.  
Non-equamous epithelium-specific transcription  
Patent: WO 0171015-A 5 27-SEP-2001;  
Rijksoverheid Rijksuniversiteit Groningen (NL)  
Location/Qualifiers  
1. .4282  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
misc\_feature 1\_4282  
/note="EGP-2 promoter sequence from -3967 to +315"

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Best Local Similarity 100.0%; Pred. No. 9.6e-69;  
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGGCTAATTTTGATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60  
Db 3188 CCGGGCTAATTTTGATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 3247

Qy 61 TCGAACTTCAAACTCAGGTGATTCGCCGCCCTCGGCCTCCCAAAGTGCTAGGATTACAG 120  
Db 3248 TCGAACTTCAAACTCAGGTGATTCGCCGCCCTCGGCCTCCCAAAGTGCTAGGATTACAG 3307

Qy 121 CGGTGAGCACCGCGCTCAGCTGGGACACCTTTTCTTACATCTTCAAGTGCTAGAAAT 180

Db 3305 CGGTGAGCACCGCGCTCAGCTGGGACACCTTTTCTTACATCTTCAAGTGCTAGAAAT 3364

Qy 181 GCTTATGAACAACGAAAAAGAATTATTAGAGTAATAATAAGAAAACACTCATTTTCTTC 240  
Db 3365 GCTTATGAACAACGAAAAAGAATTATTAGAGTAATAATAAGAAAACACTCATTTTCTTC 3424

Qy 241 CCAAGAGAGCCAAAGATTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
Db 3425 CCAAGAGAGCCAAAGATTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3484

Qy 301 AGAGGTATTAATTAATTCGAGGTAAAGCTCAAAAGTCTTTTTTATAGTCTTCTGGAA 359  
Db 3485 AGAGGTATTAATTAATTCGAGGTAAAGCTCAAAAGTCTTTTTTATAGTCTTCTGGAA 3546

RESULT 3

AX079775 171987 bp DNA linear PRI 21-APR-2005

LOCUS AX079775

DEFINITION Homo sapiens BAC clone RP11-295P2 from 2, complete sequence.

ACCESSION AC079775

VERSION AC079775.6 GI:19848453

KEYWORDS HTG.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 171987)  
Elliot,G., Doeber,A., Belter,E. and Haakenson,W.  
The sequence of Homo sapiens BAC clone RP11-295P2  
Unpublished (2001)

REFERENCE 2 (bases 1 to 171987)  
Waterston,R.H.  
Direct Submission  
Submitted (10-SEP-2000) Genome Sequencing Center, Washington University School of Medicine, 444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 3 (bases 1 to 171987)  
Waterston,R.H.  
Direct Submission  
Submitted (30-MAR-2002) Genome Sequencing Center, Washington University School of Medicine, 444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 4 (bases 1 to 171987)  
Waterston,R.  
Direct Submission  
Submitted (29-MAY-2002) Department of Genetics, Washington University, 444 Forest Park Avenue, St. Louis, Missouri 63108, USA

REFERENCE 5 (bases 1 to 171987)  
Wilson,R.K.  
Direct Submission  
Submitted (21-APR-2005) Genome Sequencing Center, Washington University School of Medicine, 444 Forest Park Parkway, St. Louis, MO 63108, USA

COMMENT On Mar 30, 2002 this sequence version replaced gi:16924154.  
----- Genome Center  
Center: Washington University Genome Sequencing Center  
Center code: WUGSC  
Web site: http://genome.wustl.edu  
Contact: submissions@wustl.edu  
----- Summary Statistics  
Center project name: H\_NH0295P02  
-----

NOTICE:

This sequence was finished as follows unless otherwise noted:  
all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.



JOURNAL Submitted (26-JAN-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

COMMENT On Jan 26, 2002 this sequence version replaced gi:7710540. Draft Sequence Produced by DOE Joint Genome Institute www.jgi.doe.gov

Finishing Completed at Stanford Human Genome Center www-shgc.stanford.edu

Quality: Phrap Quality >=40 100% of Sequence; Estimated Total Number of Errors is 0.

FEATURES Location/Qualifiers

source 1..56173

/organism="Homo sapiens"

/mol\_type="genomic DNA"

/db\_xref="taxon:9606"

/chromosome="5"

/clone="CTB-176115"

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Best Local Similarity 76.8%; Pred. No. 4.2e-19;

Matches 175; Conservative 0; Mismatches 52; Indels 1; Gaps 1;

QY 1 CCCGCTAATTTTGTATCTTTTAGTAGAGACGGCTTCCTCCATGTTGGTCAGGCTGTC 60

Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

43992 CTGGCTAATTTTGTAT-TTTTAGTAGAGACGGGTTTCTCCATGTTGGTCAGGCTGTC 44050

QY 61 TCGAAGTTTCAAACCTCAGGTGATCCGCCGCTCGCGCTCCCAAGTCTAGGATTACAG 120

Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

44051 TCGAAGTTTCAACCTCAGGTGATCCGCCGCTCGCGCTCCCAAGTCTGGATTACAG 44110

QY 121 GGTGAGCCACCGCTCAGCTCGGACACCTTTTCTTACATCTTCAAGTCTAGAAAT 180

Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

44111 GCATGAGCCACCGCGCCGCGGAGTAAGTTTGTATACATGCTACCACATGGATGAA 44170

QY 181 GCTTATGAACAGAAAGAAATATTAAAGAGTAATTATAAGAAACA 228

Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

44171 CCTTAAATAATGAACAAATAATATAGTGAATAATACACACA 44218

RESULT 5

HSA243213/c 130985 bp DNA linear PRI 02-FEB-2000

LOCUS Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5.

DEFINITION AJ243213

ACCESSION AJ243213.1 GI:6900061

VERSION 5-HT4 gene; 5-HT4 receptor.

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1

AUTHORS Bender, E., Pindon, A., van Oers, I., Zhang, Y.B., Gommeren, W., Verhasselt, P., Jurzak, M., Luyten, J., and Luyten, W.

TITLE Structure of the human serotonin 5-HT4 receptor gene and cloning of a novel 5-HT4 splice variant

JOURNAL J. Neurochem. 74 (2), 478-489 (2000)

PUBMED 10646498

REFERENCE 2 (bases 1 to 130985)

AUTHORS Bender, E.

TITLE Direct Submission

JOURNAL Submitted (17-JUN-1999) Bender E., Functional Genomics, Janssen Pharmaceutica, Turnhoutseweg 30, B-2340 Beerse, BELGIUM

FEATURES Location/Qualifiers

source 1..130985

/organism="Homo sapiens"

/mol\_type="genomic DNA"

/db\_xref="taxon:9606"

/clone="pBelobAC11-228K23"

/clone\_lib="Human genomic DNA in pBelobAC11 (Research Genetics, Huntsville, AL, U.S.A.)"

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mrna

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/codon\_start=2

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/db\_xref="GOA:Q13639"

/db\_xref="UniProt/Swiss-Prot:Q13639"

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38962..49858

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49859..50427

/gene="5-HT4"

/number=5

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/gene="5-HT4"

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78238..78397

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/gene="5-HT4"

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/note="number gef"

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Dd	5650 CCTGGCTAAATTTTGTAAT-TTTTAGTAGAGACGGGGTTTTCTCCAAGTTGGTCAGGCCTGGTC	5592
QY	61 TCGAATCTCAAACTCAGGTGATCCGCCCGCCTCGGCTCCCCAAAGTGCATTAGATTACAG	120
Dd	5591 TCGAATCTTCGACTCAGGTGATCCGCCCGCCTCGGCTCCCAGAAGTGCATTAGATTACAG	5532
QY	121 GC GTGAGCACCGCGCTCAGCTCGGGAACACCTTTTCTTATCATCTTCAAAGTGCATTAGAAAAT	180
Dd	5531 GCATGAGCACCGCGCCCGCCAGGAATAAGTTTTTGATACATGCTACCACATGGATGAA	5472
QY	181 GCTTATGAACAACGAAAAAGAAATTTAAAGAGTAATTTATAAGAAACA	228
Dd	5471 CCTTAAAAATAAATGAACAACAAATAAATGAAGTAATAATAACACACACA	5424
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	LOCUS	Homo sapiens chromosome 5 clone CTB-160O22, complete sequence.
	DEFINITION	AC008627
	ACCESSION	AC008627.7 GI:20136896
	VERSION	HTG.
	KEYWORDS	Homo sapiens (human)
	SOURCE	Homo sapiens
	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 153553) DOE Joint Genome Institute and Stanford Human Genome Center. Direct Submission Unpublished 2 (bases 1 to 153553) DOE Joint Genome Institute. Direct Submission Submitted (03-AUG-1999) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA 3 (bases 1 to 153553) DOE Joint Genome Institute and Stanford Human Genome Center. Direct Submission Submitted (11-APR-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA On Apr 11, 2002 this sequence version replaced gi:12830083. Draft Sequence Produced by DOE Joint Genome Institute <a href="#">www.jgi.doe.gov</a> Finishing Completed at Stanford Human Genome Center <a href="#">www.shgc.stanford.edu</a> Quality: Phrap Quality >=40 100% of Sequence; Estimated Total Number of Errors is 0. NOTE: This insert is not the entire sequence of the clone (entire sequence is 197 kb). It is clipped at the overlap with AC011390. The number of bases overlapped is 138359. Location/Qualifiers 1 . 153553 <ol style="list-style-type: none"><li>/organism="Homo sapiens"</li><li>/mol_type="genomic DNA"</li><li>/<a href="#">db_xref=taxon:9606</a>"</li><li>/chromosome="5"</li><li>/clone="CTB-160O22"</li></ol>
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QY	1 CCGGGCTAAATTTTGTAATCCTTGAAGACGCGGTTCCTCCCATGTGGTCAGGCCTGGTC	60











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C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/00
10,
PC C12P21/02, C12Q1/68, C12P21/08, G06F17/30, C12N15/00, C12N5/00 CC
Primer for synthesizing full-length cDNA and use thereof FH Key
FT source 1..568 Location/Qualifiers
FT Location/Qualifiers
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Best Local Similarity 79.1%; Pred. No. 9.2e-18;
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Qy 61 TCGAACTTCAAACCTCAGGTGATCGGCCGCTCGGCTCCCAAGTCTAGGATTACAG 120
Db 202 TCGAACTCCCGACCTCAGATGATCGGCCACCTCGGCTCCCAAGTCTGGGATTACAG 261
Qy 121 GCGTGAGCCAGCGGCTCAGGCTGGGAACACTTTTCTTACATCTTCAAGTGTCTAGAAAT 180
Db 262 GCGTGAGCCACCGCCAGCCAGCTTAAGAAATCTTTAAATAATATTTCTGGTGCTCTACAT 321
Qy 181 GCTTATGAAAA 191
Db 322 GTTCAGAGAAA 332
RESULT 11
AX871940 568 bp DNA linear PAT 17-DEC-2003
LOCUS
DEFINITION Sequence 6845 from Patent EP1074617.
ACCESSION AX871940
VERSION AX871940.1 GI:40026767
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
1 Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
Primers for synthesizing full-length cDNA and their use
Patent: EP 1074617-A 6945 07-FEB-2001;
JOURNAL Research Association for Biotechnology (JP)
FEATURES
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1..568
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 35.4%; Score 127; DB 6; Length 568;
Best Local Similarity 79.1%; Pred. No. 9.2e-18;
Matches 151; Conservative 0; Mismatches 40; Indels 0; Gaps 0;
Qy 1 CCGGCTAAATTTTGTATCTTTTAGTAGAGCGGCTTCTCCATGTTGGTCAGGCTGGTC 60
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Qy 61 TCGAACTTCAAACCTCAGGTGATCGGCCGCTCGGCTCCCAAGTCTAGGATTACAG 120
Db 202 TCGAACTCCCGACCTCAGATGATCGGCCACCTCGGCTCCCAAGTCTGGGATTACAG 261
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Qy 121 GCGTGAGCCAGCGGCTCAGCCTGGGACACCTTTTCTTACATCTTCAAGTGTCTAGAAAT 180
Db 262 GCGTGAGCCACCGCCAGCCAGCTTAAGAAATCTTTAAATAATATTTCTGGTGCTCTACAT 321
Qy 181 GCTTATGAAAA 191
Db 322 GTTCAGAGAAA 332
RESULT 12
AL512642 139255 bp DNA linear PRI 18-MAY-2005
LOCUS
DEFINITION Human DNA sequence from clone RP11-469L23 on chromosome 13 Contains
the ALOX5AP gene for arachidonate 5-lipoxygenase-activating protein
(FIAP) and a novel gene, complete sequence.
ACCESSION AL512642
VERSION AL512642.18 GI:16944077
KEYWORDS HTG; ALOX5AP; FIAP.
SOURCE Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
1 (bases 1 to 139255)
AUTHORS Mashreghi-Mohammadi, M.
TITLE Direct Submission
JOURNAL
COMMENT
On Nov 15, 2001 this sequence version replaced gi:16444731.
The following abbreviations are used to associate primary accession
numbers given in the feature table with their source databases:
Em., EMBL; Sw., SWISSPROT; Tr., TREMBL; Wp., WORMPEP; Information
on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome 13, constructed by the Sanger Centre Chromosome 13
Mapping Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr13
RP11-469L23 is from the library RPCI-11.2 constructed by the group
of Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pBACe3.6
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: vegas@sanger.ac.uk
-----
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one subclone; and the assembly was confirmed by restriction digest,
except on the rare occasion of the clone being a YAC.
FEATURES
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Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="13"
/clone="RP11-469L23"
/clone_lib="RPCI-11.2"
2000
/notes="Clone right end: RP11-121019"
13730..13735
/notes="Sequence from uni-directional dGTP big dye
terminator reads only."
join(36755..36922,45307..45406,53299..53369,57191..57272,
65191..65666)
/genes="ALOX5AP"
/locus_tag="RP11-469L23.1-001"
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mRNA
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65191..65666)
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/product="arachidonate 5-lipoxygenase-activating protein"
/notes="match: ESTs: AA822998 A1122464 AV716253 AV744685
BF471373 BF796002 BG435742 BG537585 BG548714 BG569867
BI911044 BM972232 BQ016999 BQ287903
match: cDNAs: BC018538 BC026209 M96552 M96554
M96556 M96557 X52195"
/locus_tag="RP11-469L23.1-001"
/standard_name="OTHUMP00000018204"
/notes="match: proteins: AAH18538 P20291 P20292 P30353
P30354 P30355 P30356 P30357 P30358 Q9D138"
/codon_start=1
/product="arachidonate 5-lipoxygenase-activating protein"
/protein_id="CAH74084.1"
/db_xref="GI:55665393"
/db_xref="InterPro:IPR001129"
/db_xref="InterPro:IPR001446"
/translation="MDQETVGNVLLIAIVTLISVVGQGFPAHKVHESRTQNGRSFOR
TCTLAPEVYANQCVDAYPTFLAVLSAGLLCSQVPAAPAGLMYLFVROKYFVGYL
GERTQSTPGYIFGKRIILFLFLMSVAGIFNYLIFFGSDPENYIKTISTISPLLI
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misc_feature
40180..40242
/locus_tag="RP11-469L23.1-001"
/locus_tag="ALOX5AP"
/notes="Single clone region. Assembly confirmed by
restriction digest data."
gene
join(43583..43792,45307..45643)
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/locus_tag="RP11-469L23.1-002"
/product="arachidonate 5-lipoxygenase-activating protein"
/notes="match: ESTs: BF892107 BF892870"
65644..65649
/locus_tag="ALOX5AP"
/locus_tag="RP11-469L23.1-001"
65673
join(104453..104839,111374..111892)
/locus_tag="RP11-469L23.2-001"
join(104453..104839,111374..111892)
/locus_tag="RP11-469L23.2-001"
/locus_tag="RP11-469L23.2-001"
/notes="match: ESTs: BI818416 BI818490"
134043..134186
/notes="Single clone region. Assembly confirmed by
restriction digest data."
134054..134063
/notes="Single clone region. Sequence from uni-directional
dGTP big dye terminator reads only."
139255
/notes="Clone_right_end: RP11-469L23"
ORIGIN
Query Match 35.13%; Score 126.8; DB 8; Length 139255;
Best Local Similarity 84.1%; Pred. No. 8.4e-18;
Matches 143; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
QY 2 CCGGCTAAATTTCTATCTTTTAGTAGAGACGGCTTCCTCCATGTTGGTCAGCTGGTCT 61
DB 123819 CTGGCTGATTTTCTATTTTCTAGTAGAGTGGGTTTCTCCATGTTGGTCAGCTGGTCT 123760
QY 62 CGAAGCTTCAAACTCAGGTGATCCGCCGCTCGGCTCCCAAGTGTAGGATTACAGG 121
DB 123759 CGAACTCCTGACCTCAGGTGATCCGCCGCTCGGCTCCCAAGTGTAGGATTACAGG 123700
QY 122 CGTGAGCCACCGGCTCAGCTCGGACACCTTTTCTTACATCTTCAAGT 171
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Db 123699 CGTGAGCCACCAACGCCGCCAGCAATTCATTTTCAAAAGCTTTTAAT 123650

RESULT 13
AL451053 149285 bp DNA linear HTG 30-SEP-2001
LOCUS Homo sapiens chromosome 1 clone RP11-296P18, 19 unordered pieces.
DEFINITION AL451053 AC027437
ACCESSION AL451053.3 GI:13872392
VERSION HTG; HTGS_PHASE1; HTGS_CANCELLED.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1
Hall, R.
Direct Submission
Submitted (29-SEP-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
On or before May 15, 2001 this sequence version replaced
gi:7637297, gi:13785412.
Draft Sequence Produced by Whitehead Institute/MIT Center for
Genome Research, 320 Charles Street,
Cambridge, MA 02141, USA
http://www-seq.wi.mit.edu
----- Genomex Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: ba296p18
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: M13; M77815; 62% of reads
Sequencing vector: plasmid; L08752; 37% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Consensus quality: 142362 bases at least Q40
Consensus quality: 144085 bases at least Q30
Consensus quality: 145103 bases at least Q20
Insert size: 146485; sum-of-contigs
Insert size: 163808; 8.2% error; agarose-fp
Quality coverage: 6.17x in Q20 bases; sum-of-contigs Quality
coverage: 5.94x in Q20 bases; agarose-fp
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 19 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
* be preserved.
*
* 1 3047: contig of 3047 bp in length
* 3048 3147: gap of 100 bp
* 3148 11710: contig of 8563 bp in length
* 11710 11810: gap of 100 bp
* 11810 18527: contig of 6717 bp in length
* 18527 18627: gap of 100 bp
* 18627 36547: contig of 17920 bp in length
* 36547 36647: gap of 100 bp
* 36647 46245: contig of 9598 bp in length
* 46245 46345: gap of 100 bp
* 46345 49690: contig of 3345 bp in length
* 49690 49790: gap of 100 bp
* 49790 64661: contig of 14871 bp in length
* 64661 64761: gap of 100 bp
* 64761 70030: contig of 5269 bp in length
* 70030 70130: gap of 100 bp
* 70130 72597: contig of 2467 bp in length
* 72597 72697: gap of 100 bp
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* 72698 76795: contig of 4098 bp in length
* 76796 76895: gap of 100 bp
* 76896 84772: contig of 7877 bp in length
* 84773 84872: gap of 100 bp
* 84873 106386: contig of 21514 bp in length
* 106387 106486: gap of 100 bp
* 113126 113226: contig of 6640 bp in length
* 113227 122312: contig of 100 bp
* 122313 122312: gap of 100 bp
* 122313 124495: contig of 2183 bp in length
* 124496 124595: gap of 100 bp
* 124596 128594: contig of 3999 bp in length
* 128595 128694: gap of 100 bp
* 128695 132520: contig of 3826 bp in length
* 132521 132620: gap of 100 bp
* 132621 141424: contig of 8804 bp in length
* 141425 141525: gap of 100 bp
* 141525 148285: contig of 6761 bp in length.
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            /db_xref="taxon:9606"
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                fragment_chain:1"
                3148..11710
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                    fragment_chain:1"
                    11811..18527
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                        18628..36547
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                            fragment_chain:2"
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ORIGIN

Query Match 35.3%; Score 126.8; DB 14; Length 148285;
Best Local Similarity 76.7%; Pred. No. 8.4e-18;
Matches 155; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTGTATCTTTTATTAGTAGAGAGCGGTTCTCCATGTTGGTCAGGTCGTC 60
Db 128346 CCTGGCTAATTTGTATCTTTTATTAGTAGAGAGAGCGGTTCTCCATGTTGGTCAGGTCGTC 128405

QY 61 TCGAATTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAGTCTCAGGATTACAG 120
Db 128406 TCGAATTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAGTCTCAGGATTACAG 128465

QY 121 CGGTGAGCCACCGGCTCAGGCTCGGAAACACTTTTCTTACATCTTCAAGTCTAGAAAT 180
Db 128466 GCATGAGCCACCGGCTCGGCTCGGCTCAACATCTTCAAGTCTAGAAAT 128525

QY 181 GCTTATGAAACGAAAGAA 202
Db 128536 GTATTGCTGTGAATTAGGGA 128547

RESULT 14
AL590133/contig
LOCUS
DEFINITION
AL590133 192096 bp DNA linear PRI 18-MAY-2005
Human DNA sequence from clone RP11-316M1 on chromosome 1 Contains
the SETDB1 gene for SET domain, bifurcated 1, the LASS2 gene for
LAG1 longevity assurance homolog 2 (S. cerevisiae), the ANXA9 gene
for annexin A9, the gene for a novel protein (FLJ11280), the gene
for Tcd37 homolog (HTCD37), the SNIP1 gene for BCL2/adenovirus E1B
19kD interacting protein like, the gene for a novel protein
(FLJ20519), the gene for small protein effector 1 of Cdc42 (SPEC1),
the gene for ALU1-fused gene from chromosome 1q (AF1Q), two novel
genes, the 5' end of a novel gene (MGC29891) and two CpG islands,
complete sequence.
AL590133 AC073204
AL590133.32 GI:20218562
HTG; AF1Q; ANXA9; SNIP1; CDC42; CpG island; FLJ11280; FLJ20519;
HTCD37; LASS2; MGC29891; SETDB1; SPEC1; TCD37.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 192096)
Direct Submission
Submitted (17-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
Clone requests: clonerequest@sanger.ac.uk
On Apr 19, 2002 this sequence version replaced gi:20196555.
The following abbreviations are used to associate primary accession
numbers given in the feature table with their source databases:
Em; ENBL; Sw; SWISSPROT; Tr; TrEMBL; Wp; WORMPEP; Information
on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chrl
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: vegas@sanger.ac.uk
-----
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
```

as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.  
RP11-316M1 is from the library RPCI-11.2 constructed by the group of Pieter de Jong. For further details see  
<http://www.chori.org/bacpac/home.htm>  
VECTOR: pBACE3.6  
Draft Sequence Produced by Genome Sequencing Center, Washington University School of Medicine, 444 Forest Park Parkway, St. Louis, MO 63108, USA  
<http://genome.wustl.edu/gsc/index.shtm1>.

## FEATURES

## Source

Location/Qualifiers

1. .192096

/organism="Homo sapiens"

/mol\_type="genomic DNA"

/db\_xref="taxon:9606"

/chromosome="11"

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/clone\_lib="RPCI-11.2"

## misc\_feature

1 /note="Clone left end: RP11-316M1"

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/gene="SETDB1"

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join(12484..12541,13897..14167,16160..16230)

/gene="SETDB1"

/locus tag="RP11-316M1.1-006"

/product="SET domain, bifurcated 1"

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31111..31301,33079..33205,35315..35471,35563..35718,

36651..37283,37558..37674,45371..45540,46756..47384,

48323..48351,48780..48912,49167..49332,49723..49934,

50188..50276,50440..50930)

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/locus tag="RP11-316M1.1-001"

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31111..31301,33079..33205,35315..35471,35563..35718,

36651..37283,37558..37674,45371..45540,46756..47384,

48323..48351,48780..48912,49167..49332,49723..49934,

50188..50276,50440..50930)

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/note="match: ESTs: Em:AI499881.1 Em:AI582266.1

Em:AI632489.1 Em:AI659916.1 Em:AI830554.1 Em:AUI151491.1

Em:AW351749.1 Em:AW451316.1 Em:BE256325.1 Em:BE274369.1

Em:BE395669.1 Em:BE544349.1 Em:BE727922.1 Em:BE727991.1

Em:BE784129.1 Em:BE790566.1 Em:BE792839.1 Em:BF026775.1

Em:BF241505.1 Em:BG331938.1 Em:BG333121.1 Em:BG333851.1

Em:BG342188.1 Em:BG437451.1 Em:BG685286.1 Em:BG745393.1

Em:BG753913.1 Em:BG755988.1 Em:BM011729.1 Em:BM464383.1

Em:BMS58159.1 Em:BG675487.1 Em:BQ217875.1 Em:BQ35376.1

Em:BQ956716.1 Em:BU500506.1 Em:BU624516.1 Em:BU628854.1

Em:CB153628.1 Em:CB270416.1 Em:CB306095.1 Em:CF136791.1

match: cDNAs: Em:BC028671.2 Em:D31891.1

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/locus tag="RP11-316M1.1-003"

join(12617..12656,13897..14167,16160..16311,46756..47083)

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/locus tag="RP11-316M1.1-003"

/product="SET domain, bifurcated 1"

/note="match: ESTs: Em:BQ220240.1"

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27522..27621,28756..28881,30113..30186,31111..31303)

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/locus tag="RP11-316M1.1-009"

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/gene="SETDB1"

## mRNA

1 /note="SETDB1"

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/note="match: ESTs: Em:BX440371.1"  
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27522..27621,28756..28881,29045..29246,30113..30186,

31111..31513)

/gene="SETDB1"

/locus tag="RP11-316M1.1-002"

join(12642..12656,13897..14167,16160..16311,26133..26167,

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31111..31513)

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Em:AI377943.1 Em:AI762193.1 Em:AW235046.1 Em:AW292360.1

Em:BI855763.1 Em:BQ004073.1 Em:BQ055551.1 Em:BU621595.1

Em:BU940444.1 Em:CA422418.1 Em:CA444580.1

match: cDNAs: Em:BC009362.1 Em:BC009362.2"

join(12833..13001,13897..14167,16160..16309)

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/locus tag="RP11-316M1.1-008"

join(12833..13001,13897..14167,16160..16309)

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/locus tag="RP11-316M1.1-008"

/product="SET domain, bifurcated 1"

/note="match: ESTs: Em:CB149707.1"

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/locus tag="RP11-316M1.1-008"

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/codon\_start=1

/product="SET domain, bifurcated 1"

/protein\_id="CA113325.1"

/db\_xref="GI:55960631"

/db\_xref="UniProt/TREMBL:Q5SZD9"

/translation="MCEVFLMLEDKSSSLPGCIGLDAATATVESEIAELQAAVV

VNLCSLVDKDFHDELEKMDVQQRKQLALETWIKQSEVAHVQDLFDDASRA

ETNGSLVQDFYKLGLOVDRSSDESSRPTEIIEPDEDDVLSIDS"

join(13908..14167,16160..16311,26133..26167,27522..27621,

28756..28881,29045..29246,30113..30186,31111..31301,

33079..33205,35315..35471,35563..35718,36651..37283,

37558..37674,45371..45540,46756..47384,48323..48351,

48780..48912,49167..49332,49723..49934,50188..50276,

50440..50557)

/gene="SETDB1"

/locus tag="RP11-316M1.1-001"

/standard\_name="OTTHUMP00000032929"

/note="match: proteins: Sw:Q88974 Sw:Q15047 Tr:Q8BTV6"

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/translation="MSSLPGCIGLDAATATVESEIAELQAAVVEELGISMEELRHPI

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YAGIVGPKCKYKVFDDGKSLSSGNHAYDHPADKLYGSRVAVYKDKGNQVWL

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LDHISVNFKEGYSDAPCSDDSGVDLKDQEDNGSTEDPESNDSDSSDNFKODE  
DFSTSVNRVATRTQKQKNGELSETTSKDSHPDLPPIVPPVPIVPGGNCPPS  
SEETPKNVASWLEDCNSVSEGGFADSDSHGFKNEGEGRAGSRMBAEKASGSLG  
TKDEGDIKOAKEDTDDRKNKSVTVESSENNYGNPSVPEGLRPPSPKTSWHQSRRL  
MASASNDVDULTLSSTESGESGTSRKPTAGTQTSATVADSDDIQTISSESGDDFE  
DKKNWTGPMKQVAVKSTRGALKSTHGAITSKTNMVASDVGESAPVNRKTRQFDGE  
ESCYIIDAKLEGNLGRYNHSCSPNLFQNVFVDTHLRFPMWAFPAFASKRIAGTFLT

Query Match	35.3%	Score 126.8;	DB 8;	Length 192096;
Best Local Similarity	76.7%	Pred No. 8.3e-18;		
Matches 155;	Conservative 0;	Mismatches 47;	Indels 0;	Gaps 0;
QY	1	CCCGCTAATTTTGTATCTTTTAGTAGAGACGGCGTCTCTCATCTTGTGTGTCAGGTGGTC	60	
Db	36286	CTCGCTAATTTTGTATTTTGTAGTAGACAGGGGTTTCTCCATGTTGGCAGCGTGGTC	36227	
QY	61	TGGAATTTCAACCTCAGTGATCCCGCGCTCGCTCCCAAGTCTAGGATTACAG	120	
Db	36226	TGGAATTTCCGACCTCAGTGATCCACCGCTCGCGCTCCCAAGTCTGGGATTACAG	36167	
QY	121	GGTGAGCCACCGCTCAGCTCGGAGCACCTTTTCTTACATCTTCAAGTCTAGAAAT	180	
Db	36166	GCATGAGCCACCGCGCGCTCACTCTTATTTCAACGATATACCTTTCTTCTAATAAT	36107	
QY	181	GCTTATGAAACGAAAAAGAA	202	
Db	36106	GTAATTTGCTGTGAATTATGGA	36085	

RESULT 15	AC117378/c	LOCUS	AC117378	110459 bp	DNA	linear	PRI 15-MAR-2003
DEFINITION	Homo sapiens 12 BAC RP11-112B10 (Roswell Park Cancer Institute Human BAC Library) complete sequence.						
ACCESSION	AC117378	AC021586					
VERSION	AC117378.8	GI:23346656					
KEYWORDS	HTG.						
SOURCE	Homo sapiens						
ORGANISM	Homo sapiens (human)						
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo.						
AUTHORS	1 (bases 1 to 110459)						
	Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-oman,F.R., Allen,C., Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Ayele,M., Banks,T., Barbara,J., Benton,J., Binage,K., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chiu,D., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrall,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Han,J., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hognes,M., Holloway,C., Hollins,B., Honsi,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Ioshikhes,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lee,E., Lewis,L.C., Lewis,L., Li,J., Li,Z., Lichtarge,O., Liu,C., Liu,J., Liu,W., Loulseged,H., Lozado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapua,P., Marondel,I., Martin,R., Martindale,A., Martinez,E., Massey,E., Mawhney,E., McLeod,M.P., Meador,M., Mei,G., Merscher,S., Metzker,M., Miller,A., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Montgomery,K.T., Morgan,M., Morris,S., Moser,M., Mohabbat,K., Montgomery,K.T., Morgan,M., Morris,S., Moser,M., Neal,D., Nelson,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N.,						

Nguyen,N., Nickerson,E., Nwokenkwo,S., Oguh,M., Okwuonu,G., Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y., Rivers,M., Rojas,A., Rojibokan,I., Rolfe,M., Ruiz,S., Savery,G., Scherer,S., Scott,G., Shen,H., Shim,C., Shooshtari,N., Sisson,I., Sodergren,B., Sonaike,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S., Umani,K., Vasquez,L., Vera,V., Villalón,D., Vinson,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczyk,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Kucherlapati,R., Weinstock,G. and Gibbs,R.

TITLE	Direct Submission
JOURNAL	Unpublished
REFERENCE	2 (bases 1 to 110459)
AUTHORS	Worley,K.C.
TITLE	Direct Submission
JOURNAL	Submitted (10-APR-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	3 (bases 1 to 110459)
AUTHORS	Worley,K.C.
TITLE	Direct Submission
JOURNAL	Submitted (29-JUN-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	4 (bases 1 to 110459)
AUTHORS	Worley,K.C.
TITLE	Direct Submission
JOURNAL	Submitted (30-SEP-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	5 (bases 1 to 110459)
AUTHORS	Worley,K.C.
TITLE	Direct Submission
JOURNAL	Submitted (01-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	6 (bases 1 to 110459)
AUTHORS	Worley,K.C.
TITLE	Direct Submission
JOURNAL	Submitted (15-MAR-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
COMMENT	On Sep 30, 2002 this sequence version replaced gi:21490136. INFORMATION: <a href="http://www.hgsc.bcm.tmc.edu/">http://www.hgsc.bcm.tmc.edu/</a> or email <a href="mailto:gc-help@bcm.tmc.edu">gc-help@bcm.tmc.edu</a>

CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the beginning and end of the Features listing.

ANNOTATION OF FEATURES:  
STSS are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts.  
Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences.  
Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE:Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for

a region does not meet this standard, it will be indicated in the annotation as low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases.

Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found

at URL:  
http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.ht

FEATURES

source

Location/Qualifiers

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/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/chromosome="12"  
/clone="RP11-112B10"  
1. .2002  
/note="overlaps bases 91579. .93582 of clone AC090681"

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/function="clone overlap"  
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repeat\_region

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repeat\_region

complement(985. .1277)  
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repeat\_region

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repeat\_region

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/rpt\_family="AT\_rich"

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12920. .13245  
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13246. .13383  
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Best Local Similarity 84.9%; Pred No. 1.3e-17;  
Matches 141; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGTCAGGCTGGTC 60  
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Db 29694 CCCGGCTAATTTTGTATCTTTTAGTAGAGATGGGGTTTCTCCATGTTGTCAGGCTGGTC 29635

QY 61 TCGAACTTCAAACCTCAGGTGATCCGCCCTCGCCCTCCCAAGTCCTAGATTACAG 120  
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Db 29634 TCGAACTTCAAACCTCAGGTGATCCGCCCTCGCCCTCCCAAAATGCTGGATTACAG 29575

QY 121 GCGTGAGCCACCGCGCTCAGCTGGGAACACCTTTTCTTACATCTT 166  
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Db 29574 GCGTGAGCCACCGCGCTCAGGAGACATTTTACCATTTT 29529

Search completed: May 6, 2006, 20:09:23  
Job time : 2420 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2006, 17:29:32 ; Search time 401 Seconds  
(without alignments)  
5966.645 Million cell updates/sec

Title: US-10-009-579A-5\_COPY\_3188\_3546

Perfect score: 359  
Sequence: 1 cccggctaatttctatctt.....ttttttatagttcttgga 359

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N Geneseq\_21.\*  
1: Geneseqn1980s.\*  
2: Geneseqn1990s.\*  
3: Geneseqn2000s.\*  
4: Geneseqn2001as.\*  
5: Geneseqn2001bs.\*  
6: Geneseqn2002as.\*  
7: Geneseqn2002bs.\*  
8: Geneseqn2003as.\*  
9: Geneseqn2003bs.\*  
10: Geneseqn2003cs.\*  
11: Geneseqn2003ds.\*  
12: Geneseqn2004as.\*  
13: Geneseqn2004bs.\*  
14: Geneseqn2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	359	100.0	4282	AAL41898	Aal41898 Human GA7
2	127	35.4	568	AAH10010	Aah10010 Human CDN
3	126.8	35.3	98800	12 ADN06353_3	Continuation (4 of
4	126.8	35.3	98800	13 ADS94372_3	Continuation (4 of
5	124.4	34.7	1744	6 ABZ70301	Abz70301 Human tyr
6	123.8	34.5	344	4 AAK68705	Aak68705 Human imm
7	123.8	34.5	438	5 ABV13839	Abv13839 Human pro
8	122.4	34.1	160361	12 ADL08116	Adl08116 Human gen
9	122.2	34.0	22651	4 AAK78202	Aak78202 Human imm
10	122	34.0	313001	14 ADZ70075	Adz70075 Human ins
11	122	34.0	321019	13 ADS36450	Ads36450 Human aut
12	122	34.0	329019	13 ABD32707	Abd32707 Human can
13	121.8	33.9	381	6 ABL83966	Ab183966 Human ova
14	121.8	33.9	546	13 ACF91521	Acf91521 Human SIR
15	121.8	33.9	556	5 AAS90976	Aas90976 DNA encod
16	121.8	33.9	3470	5 ABV25066	Abv25066 Human pro
17	121.8	33.9	122673	14 AEA61123	Aea61123 Human PDE
18	121.4	33.8	30393	4 AAK67239	Aak67239 Human imm
19	121.2	33.8	291	11 ADZ57848	Adz57848 Human Alu

20	121.2	33.8	7793	8 ABZ73859	Abz73859 Secreted
21	121.2	33.8	7793	8 ADA98513	Ada98513 Human sec
22	121.2	33.8	7793	8 ADA44266	Ada44266 Human sec
23	121.2	33.8	7793	10 ADC20639	Adc20639 Human sec
24	121.2	33.8	7793	10 ADF10839	Adf10839 Human sec
25	121.2	33.8	7793	10 ABZ67436	Abz67436 Human sec
26	120.8	33.6	779	4 AAK90274	Aak90274 Human dig
27	120.8	33.6	779	4 AAI57654	Aai57654 Human col
28	120.8	33.6	779	6 ABS99831	Abs99831 Genomic D
29	120.8	33.6	779	10 ADB92984	Adb92984 Human col
30	120.8	33.6	1559	12 ADO15908	Ado15908 4 synthes
31	120.8	33.6	10159	4 AAK73470	Aak73470 Human imm
32	120.8	33.6	10159	4 AAK73471	Aak73471 Human imm
33	120.4	33.6	67253	14 AEA61178	Aea61178 Human GPR
34	120.4	33.5	47188	10 ADL13758	Adl13758 Osteoarth
35	120.2	33.5	3062	4 AAH14445	Aah14445 Human CDN
36	120.2	33.5	3062	6 ABX04191	Abx04191 Human mRN
37	120.2	33.5	4088	4 AAK87132	Aak87132 Human imm
38	120.2	33.5	83517	13 ABD32581	Abd32581 Human can
39	120	33.4	301	10 ADH59595	Adh59595 Alu-repea
40	120	33.4	2744	4 AAK79905	Aak79905 Human imm
41	120	33.4	2744	4 AAK79904	Aak79904 Human imm
42	120	33.4	11581	14 AEA61110	Aea61110 Human CDA
43	120	33.4	110000	12 ADN06353_0	Adn06353 Human FLA
44	120	33.4	110000	13 ADS94372_0	Ads94372 Human 5-1
45	120	33.4	165199	6 ABR83460	Abk83460 Human CDN

## ALIGNMENTS

### RESULT 1

AAL41898  
ID AAL41898 standard; DNA; 4282 BP.

XX AAL41898;

XX 03-MAY-2002 (first entry)

XX Human GA733-2 gene (encoding human epithelial glycoprotein-2) promoter.

XX Human; GA733-2 gene promoter; gene; epithelial glycoprotein-2; EGP-2;  
XX pan-carcinoma associated antigen; cancer; carcinoma selective expression;  
XX treatment evaluation; non-squamous epithelium disease; carcinogenesis;  
XX transgenic animal; ds; gene therapy.

XX Homo sapiens.

XX EP1130106-A1.

XX 05-SEP-2001.

XX 01-MAR-2000; 2000EP-00200728.

XX 01-MAR-2000; 2000EP-00200728.

XX (UYGR-) RIJKSUNIV GRONINGEN.

XX De Leij LFMH, McLaughlin PMJ, Ruiter WHJ, Harmsen MC;

XX Van Der Molen H, Terpstra P, Dokter WHA;

XX WPI; 2001-591523/67.

XX Novel isolated and/or recombinant nucleic acid having tissue specific  
XX promoter derived from epithelial glycoprotein 2 gene, that allows  
XX expression of desired nucleic acid in cancer cell, specifically carcinoma  
XX cell.

XX Claim 3; Fig 1; 21pp; English.

XX The invention comprises the promoter sequence of the human GA733-2 gene.  
XX The GA733-2 gene encodes human epithelial glycoprotein-2 (EGP-2), which  
XX is a pan-carcinoma associated antigen. The GA733-2 gene promoter allows

CC the expression of a nucleic acid of interest in a cancer cell, where the  
CC expression within the cancer cell is carcinoma selective. The GA733-2  
CC gene promoter sequence is useful in the treatment of cancer and in  
CC evaluating the treatment of a disease (e.g. a disease of the non-squamous  
CC epithelium, such as carcinogenesis). The GA733-2 gene promoter can also  
CC be used in the production of host cells and a transgenic animal. The  
CC present nucleotide sequence represents the GA733-2 gene promoter sequence  
CC of the invention  
XX

SEQ Sequence 4282 BP; 1115 A; 1031 C; 976 G; 1160 T; 0 U; 0 Other;

Query Match 100.0%; Score 359; DB 4; Length 4282;  
Best Local Similarity 100.0%; Pred. No. 5.2e-70;  
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGCGCTAATTTTGTATCTTTTAGTAGAGACGGCTTCCTCATGTTGGTCAGGCTGGTC 60

Db 3188 CCGCGCTAATTTTGTATCTTTTAGTAGAGACGGCTTCCTCATGTTGGTCAGGCTGGTC 3247

QY 61 TCGAACTTCAAACTCAGGTGATCGCGCTCGCGCTCCCAAGTGTAGATTACAG 120

Db 3248 TCGAACTTCAAACTCAGGTGATCGCGCTCGCGCTCCCAAGTGTAGATTACAG 3307

QY 121 GGTGAGCCACCGCTGAGCTGGGAACACCTTTCTTACATCTTCAAGTGTAGAAAT 180

Db 3308 GGTGAGCCACCGCTGAGCTGGGAACACCTTTCTTACATCTTCAAGTGTAGAAAT 3367

QY 181 GCTTATGAACGAAAGAAATTTAAGAGTAATTAAGAGTAATTAAGAGTAATTTCTTC 240

Db 3368 GCTTATGAACGAAAGAAATTTAAGAGTAATTAAGAGTAATTAAGAGTAATTTCTTC 3427

QY 241 CCAAGAGAGCCAGATTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300

Db 3428 CCAAGAGAGCCAGATTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3487

QY 301 AGGAGTAAATTAATGTCAGGTAAAGCTCAAGGCTCTTTTATAGTGTCTCGAA 359

Db 3488 AGGAGTAAATTAATGTCAGGTAAAGCTCAAGGCTCTTTTATAGTGTCTCGAA 3546

RESULT 2

AAH10010

ID AAH10010 standard; cDNA; 568 BP.

AC AAH10010;

XX 26-JUN-2001 (first entry)

DT Human cDNA clone (3'-primer) SEQ ID NO:6845.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

XX Homo sapiens.

XX EP1074617-A2.

XX 07-FEB-2001.

XX 28-JUL-2000; 2000BP-00116126.

XX 29-JUL-1999; 99JP-00248036.

XX 27-AUG-1999; 99JP-00300253.

XX 11-JAN-2000; 2000JP-00118776.

XX 02-MAY-2000; 2000JP-00183767.

XX 09-JUN-2000; 2000JP-00241899.

XX (HELI-) HELIX RES INST.

XX Ota T, Isogai T, Nishikawa T, Hayaashi K, Saito K, Yamamoto J;

XX Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI; 2001-318749/34.

XX

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
PT length cDNAs defined in the specification, and for the detection and/or  
PT diagnosis of the abnormality of the proteins encoded by the full-length  
PT cDNAs.

XX Claim 3; SEQ ID NO 6845; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesizing 5602 full-  
CC length cDNAs defined in the specification. Where a primer set comprises:  
CC (a) an oligo-dr primer and an oligonucleotide complementary to the  
CC complementary strand of a polynucleotide which comprises one of the 5602  
CC nucleotide sequences defined in the specification, where the  
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
CC of an oligonucleotide comprising a sequence complementary to the  
CC complementary strand of a polynucleotide which comprises a 5'-end  
CC sequence and an oligonucleotide comprising a sequence complementary to a  
CC polynucleotide which comprises a 3'-end sequence, where the  
CC oligonucleotide comprises at least 15 nucleotides and the combination of  
CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
CC specification. The primer sets can be used in antisense therapy and in  
CC gene therapy. The primers are useful for synthesizing polynucleotides,  
CC particularly full-length cDNAs. The primers are also useful for the  
CC detection and/or diagnosis of the abnormality of the proteins encoded by  
CC the full-length cDNAs. The primers allow obtaining of the full-length  
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
CC AAH13633 to AAH18742 represent human cDNA sequences; AAH95893  
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent  
CC oligonucleotides, all of which are used in the exemplification of the  
CC present invention

XX SEQ Sequence 568 BP; 154 A; 138 C; 128 G; 141 T; 0 U; 7 Other;

Query Match 35.4%; Score 127; DB 4; Length 568;  
Best Local Similarity 79.1%; Pred. No. 1e-18;  
Matches 151; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGGTTCTCCATGTTTGGTCAGGCTGGTC 60

Db 142 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGGTTCTCCATGTTTGGTCAGGCTGGTC 201

QY 61 TCGAACTTCAAACTCAGGTGATCGCGCTCGCGCTCCCAAGTGTAGATTACAG 120

Db 202 TCGAACTTCCGACCTCAGATGATCGCCACCTCGGCTCCCAAGTGTAGATTACAG 261

QY 121 GGTGAGCCACCGCTCAGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180

Db 262 GGTGAGCCACCGCTCAGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 321

QY 181 GCTTATGAATA 191

Db 322 GTTCAGAGAAA 332

RESULT 3

ADN06353\_3/c

Continuation (4 of 4) of ADN06353 from base 300001 (Human FLAP genomic DNA SEQ ID NO:1.

WP Sequence split into 4 fragments LOCUS ADN06353 Accession Adn06353

WP Fragment Name Begin End

WP ADN06353\_0 1 110000

WP ADN06353\_1 100001 210000

WP ADN06353\_2 200001 310000

WP ADN06353\_3 300001 398800

Query Match 35.3%; Score 126.8; DB 12; Length 98800;  
Best Local Similarity 84.1%; Pred. No. 2.9e-18;  
Matches 143; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 2 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTTGGTCAGGCTGGTCT 61

Db 81300 CTGGCTGATTTTCTATTTTATAGTAGAGATGGGGTTTCTCCATGTTTGGTCAGGCTGGTCT 81241

QY 62 CGAACTTCAAACTCAGGTGATCGCGCTCGGCTCCCAAGTGTAGATTACAGG 121

XX

Db 81240 CGAAGTCTCTGACCTCAGGTGATCCGCCCGCTCGGCCTCCCAAGTGTGGGATTACAGG 81181

QY 122 CCGTGGCCACCGGCTCAGCTGGGACACACCTTTCTTACATCTTCAAGT 171

Db 81180 CCGTGGCCACCGGCTCAGCTGGGACACCAATTTCCATTTTCAAAAGCTTTTAAT 81131

RESULT 4

ADS94372\_3/c

Continuation (4 of 4) of ADS94372 from base 300001 (Human 5-lipoxygenase activating protein sequence split into 4 fragments LOCUS ADS94372 Accession ADS94372

WP Sequence Name Begin End

WP ADS94372\_0 1 110000

WP ADS94372\_1 100001 210000

WP ADS94372\_2 200001 310000

WP ADS94372\_3 300001 398800

Query Match 35.3%; Score 126.8; DB 13; Length 98800;

Best Local Similarity 84.1%; Pred. No. 2.9e-18;

Matches 143; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 2 CCGGCTAATTTGTATCTTTTAGTAGAGAGCGGGTTCTCCATGTTGGTCAGGCTGGTCT 61

Db 81300 CTGGCTGATTTCTATTTTATTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTCT 81241

QY 62 CGAAGTCTCAAACTCAGGTGATCCGCCCGCTCGGCCTCCCAAGTGTGGGATTACAGG 121

Db 81240 CGAAGTCTCAGCTCAGGTGATCCGCCCGCTCGGCCTCCCAAGTGTGGGATTACAGG 81181

QY 122 CCGTGGCCACCGGCTCAGCTGGGACACACCTTTTCTTACATCTTCAAGT 171

Db 81180 CCGTGGCCACCGGCTCAGCTGGGACCAAGCAATTTCCATTTTCAAAAGCTTTTAAT 81131

RESULT 5

ABZ70301

ID ABZ70301 standard; cDNA; 1744 BP.

XX AC ABZ70301;

XX DT 25-APR-2003 (first entry)

XX DE Human tyrosinase 10.01 coding sequence.

XX KW Human; tyrosinase 10.01; enzyme; cancer; HIV infection; cytostatic;

XX KW anti-HIV; gene; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

XX CDS 129..404

XX FT /\*tag= a

XX FT /product= "Tyrosinase 10.01"

XX PN CN1363662-A.

XX PD 14-AUG-2002.

XX PF 05-JAN-2001; 2001CN-00105035.

XX PR 05-JAN-2001; 2001CN-00105035.

XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.

XX PI Mao Y, Xie Y;

XX DR WPI; 2002-751776/82.

XX DR P-PSDB; ABP59183.

XX PT Polypeptide-human tyrosinase 10.01 and polynucleotide for coding it.

XX PS Claim 6; Page 24-25 (Disclosure); 32pp; Chinese.

XX

CC The present sequence is the coding sequence for human tyrosinase 10.01.

CC The protein can be used for treating diseases such as cancer and HIV

CC infection

XX SQ Sequence 1744 BP; 354 A; 478 C; 476 G; 436 T; 0 U; 0 Other;

Query Match 34.7%; Score 124.4; DB 6; Length 1744;

Best Local Similarity 86.7%; Pred. No. 4.7e-18;

Matches 137; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 CCCGCTAATTTTGTATCTTTTAGTAGAGCGGGTTCTCCATGTTGGTCAGGCTGGTCT 60

Db 1384 CCCGCTAATTTTGTATCTTTTAGTAGAGCGGGTTCTCCATGTTGGTCAGGCTGGTCT 1443

QY 61 TCGAACTTCAAACTCAGGTGATCCGCCCGCTCGGCCTCCCAAGTGTGGGATTACAG 120

Db 1444 TCGAACTCTGACCTCATGTGATCCGCCCGCTCGGCCTCCCAAGTGTGGGATTACAG 1503

QY 121 CGGTGAGCCACCGCTCAGCTCGGCTGGGACACCTTTTCT 158

Db 1504 CGGTGAGCTACCGGCCCGGCTCGGTAGAGCTTTT 1541

RESULT 6

AAK68705/c

ID AAK68705 standard; DNA; 344 BP.

XX AC AAK68705;

XX DT 06-NOV-2001 (first entry)

XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:23517.

XX KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

XX KW cytostatic; gene therapy; vaccine; metastasis; ds.

XX OS Homo sapiens.

XX PN WO200157182-A2.

XX PD 09-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US001354.

XX PR 31-JAN-2000; 2000US-0179065P.

XX PR 04-FEB-2000; 2000US-0180628P.

XX PR 24-FEB-2000; 2000US-0184664P.

XX PR 02-MAR-2000; 2000US-0186350P.

XX PR 16-MAR-2000; 2000US-0189874P.

XX PR 17-MAR-2000; 2000US-0190076P.

XX PR 18-APR-2000; 2000US-0198123P.

XX PR 19-MAY-2000; 2000US-0205515P.

XX PR 07-JUN-2000; 2000US-0209467P.

XX PR 28-JUN-2000; 2000US-0214886P.

XX PR 30-JUN-2000; 2000US-0215135P.

XX PR 07-JUL-2000; 2000US-0216647P.

XX PR 07-JUL-2000; 2000US-0216880P.

XX PR 11-JUL-2000; 2000US-0217487P.

XX PR 11-JUL-2000; 2000US-0217496P.

XX PR 14-JUL-2000; 2000US-0218290P.

XX PR 26-JUL-2000; 2000US-0220963P.

XX PR 26-JUL-2000; 2000US-0220964P.

XX PR 14-AUG-2000; 2000US-0224518P.

XX PR 14-AUG-2000; 2000US-0224519P.

XX PR 14-AUG-2000; 2000US-0225213P.

XX PR 14-AUG-2000; 2000US-0225214P.

XX PR 14-AUG-2000; 2000US-0225266P.

XX PR 14-AUG-2000; 2000US-0225267P.

XX PR 14-AUG-2000; 2000US-0225268P.

XX PR 14-AUG-2000; 2000US-0225270P.

XX PR 14-AUG-2000; 2000US-0225447P.

XX PR 14-AUG-2000; 2000US-0225757P.

XX PR 14-AUG-2000; 2000US-0225758P.





```
CC is APOA 1 CC, CD14 1 CT, COL5A2 1 GG, EDNRB 1 AG or AA, FABP3 1 CT, GBE1
CC 1 AG or GG, LIPC 5 AA, MTHFR 1 CC, VWF 2 GG, or their complements. The
CC allelic variant in determining whether a male subject has, or is at risk
CC of developing, an abnormally low HDL-C level, LRPI 3 CC or CT, PAI2 4 GG,
CC or PPARG 1 CG, or their complements. The allelic variants are also COL5A2
CC 1 GG, CD14 1 CT or CC, and FABP3 1 CT, in combination, or their
CC complements. The methods are useful for diagnosing (a predisposition to)
CC abnormally low levels of low high density lipoprotein-C (HDL-C) in a
CC subject. The methods are useful in diagnosing (a predisposition to) or
CC prognosticating diseases and disorders associated with abnormal lipid
CC levels such as vascular and metabolic diseases, e.g., coronary artery
CC disease. The present sequence is a human gene containing a SNP (single
CC nucleotide polymorphism associated with low high density lipoprotein-C
CC (HDL-C) levels.
XX
SQ Sequence 160361 BP; 43435 A; 35277 C; 35459 G; 45990 T; 0 U; 200 Other;

Query Match 34.1%; Score 122.4; DB 12; Length 160361;
Best Local Similarity 80.0%; Pred. No. 3e-17;
Matches 144; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

Qy 1 CCCGCTAAATTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
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Qy 61 TCGAACTTCAAACCTCAGGTGATCCGCCCTCGGCCCTCCAAAGTGTCTAGGATTACAG 120
Db 157956 TCAAACCTCCGACCTCAGGTGATCCGCCCGCTTGGCCCTCCAAAGTGTGGGATTACAG 158015

Qy 121 GCGTAGCCACGGCGCTCAGCTGGGACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db 158016 GCGGAGCCACCGCGCCGCTGAGCCAGACCACTTCTGTCTTTTAAGGCTCCTGCTAAT 158075

RESULT 9
AAK78202/c
ID AAK78202 standard; DNA; 22651 BP.
XX
AC AAK78202;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:33014.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
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PR 05-JAN-2001; 2001US-0259678P.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 33014; 307lpp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
XX amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic  
XX activity, and can be used in gene therapy and vaccine production. (I)  
XX proteins and polynucleotides may be used in the prevention, diagnosis and  
XX treatment of diseases associated with inappropriate (I) expression. For  
XX example, they may be used to treat disorders associated with decreased  
XX expression by rectifying mutations or deletions in a patient's genome  
XX that affect the activity of (I) by expressing inactive proteins or to  
XX supplement the patients own production of (I). Additionally, (I)  
XX polynucleotides may be used to produce the secreted (I), by inserting the  
XX nucleic acids into a host cell and culturing the cell to express the  
XX protein. (I) proteins and polynucleotides may be used to prevent,  
XX diagnose and cancer metastases of haematopoietic-related diseases, especially  
XX cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
XX to AAK87694 represent human immune/haematopoietic antigen genomic  
XX sequences from the present invention. AAK34942 to AAK34950 and AAK82169

CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 22651 BP; 5939 A; 5107 C; 5360 G; 6245 T; 0 U; 0 Other;  
Query Match 34.0%; Score 122.2; DB 4; Length 22651;  
Best Local Similarity 90.9%; Pred. No. 2.3e-17;  
Matches 130; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCTTCTCCATGTTGGTCAGGCTGGTC 60  
Db 4383 CCGGCTAATTTTGTATTTTGTAGTAGAGATGGGTTTCTCCATGTTGGTCAGGCTGGTC 4324  
QY 61 TCGAACTTCAAACCTCAGGTGATCCGCCCGCTCCGAGCTCCCAAGTGTAGGATTACAG 120  
Db 4323 TCGAACTCCCAATCTCAGGTGATCCGCCCGCTCAGTCTCCCAAGTGTGGAATTACAG 4264  
QY 121 GCGTAGCCACCGGCTCAGCCT 143  
Db 4263 GCGTAGCCACCGCAGCCT 4241  
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ID ADZ70075 standard; DNA; 313001 BP.  
XX  
AC ADZ70075;  
XX  
DT 14-JUL-2005 (first entry)  
XX  
DE Human insulin-like growth factor 1 receptor (IGF-IR) gene - SEQ ID 1.  
XX  
KW SNP detection; diagnosis; cardiac hypertrophy; cardiant;  
KW insulin-like growth factor 1 receptor; gene; ds.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
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XX      28-APR-2005.
XX      09-OCT-2003; 2003JP-00350960.
XX      09-OCT-2003; 2003JP-00350960.
XX      (KOKU-) KOKURITSU JUNKANKI BYO CENT SOCHO.
XX      (DOKU-) DOKURITSU GYOSEI HOJIN IYAKUJIN IRYO KIK.
XX      WPI: 2005-326229/34.
XX      P-PSDB; ADZ70089.
XX      Testing hypertensive cardiac hypertrophy factor, by determining genotype
XX      of polymorphism in insulin-like growth factor 1 receptor (IGF-IR) gene of
XX      subject and estimating based on determined genotype.
XX      Disclosure; SEQ ID NO 1; 19pp; Japanese.
XX      The invention comprises a method of testing hypertensive hypertrophy
XX      factor. The method involves determining the genotype of a polymorphism in
XX      the insulin-like growth factor 1 receptor (IGF-IR) gene of a subject, and
XX      estimating the hypertensive cardiac hypertrophy factor based on the
XX      determined genotype. The method of the invention is useful for testing
XX      hypertensive cardiac hypertrophy factor, and thereby determining the risk
XX      of developing cardiac hypertrophy. The present DNA sequence represents
XX      the human IGF-IR gene.
SQ      Sequence 313001 BP; 79741 A; 67002 C; 72630 G; 93626 T; 0 U; 2 Other;
Query Match      34.0%; Score 122; DB 14; Length 313001;
Best Local Similarity 76.8%; Pred. No. 4.2e-17;
Matches 149; Conservative 0; Mismatches 45; Indels 0; Gaps 0;
QY      2 CCGGCTAATTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTCT 61
Db      165118 CTGGTTAATTTTGTATTTTAGTAGAGATGGGTTTCTCCATGTTGGTCAGGCTGGT 165059
QY      62 CGAACTTCAACCTCAGGTGATCCGCCCGCTCCGAGTCCCAAGTGTAGATTACAGG 121
Db      165058 CGAACTCTCTGACCTCAGGTGATCCGCCCGCTCAGCCTCTCAAAGTGTGGGATTACAGG 164999
QY      122 CGTGAGCCACCGCGCTCAGCCTGGGAACACCTTTCTTACATCTTCAAGTGTAGAAATG 181
Db      164998 CGTGAGCCACCGCGCTCCAGCCAGAGAAATTTTCTAATCTTAGTGTGCTACAGC 164939
QY      182 CTTATGAAACGAA 195
Db      164938 AATATGAAGCAAA 164925
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RESULT 11  
 ADS36450/c  
 ID ADS36450 standard; DNA; 321019 BP.  
 XX AC  
 XX ADS36450;  
 XX  
 DT 16-DEC-2004 (first entry)  
 XX  
 DE Human autoimmune disease-related genomic DNA sequence - SEQ ID 1664.  
 XX  
 DE single nucleotide polymorphism detection; SNP detection;  
 KW rheumatoid arthritis; type 1 diabetes; multiple sclerosis;  
 KW systemic lupus erythematosus; inflammatory bowel disease; psoriasis;  
 KW thyroiditis; celiac disease; pernicious anaemia; asthma; vitiligo;  
 KW glomerulonephritis; Grave's disease; myocarditis; Sjogren's disease;  
 KW primary systemic vasculitis; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004083403-A2.  
 XX  
 PD 30-SEP-2004.  
 XX  
 PF 18-MAR-2004; 2004WO-US008461.  
 XX  
 PR 18-MAR-2003; 2003US-0455444P.  
 PR 25-APR-2003; 2003US-0465241P.  
 XX  
 PA (APPL-) APPLERA CORP.  
 XX  
 PI Cargill M, Begovich AB, Alexander HC;  
 XX  
 XX WPI; 2004-728480/71.  
 XX  
 PT New isolated nucleic acid molecule comprises at least 8 contiguous  
 PT nucleotides where one of the nucleotides is a single nucleotide  
 PT polymorphism (SNP), useful for diagnosing or treating autoimmune  
 PT diseases, e.g. rheumatoid arthritis.  
 XX  
 PS Claim 16; SEQ ID NO 1664; 123pp; English.  
 XX  
 CC The invention comprises amino acid and coding sequences containing  
 CC genetic polymorphisms associated with an altered risk of developing an  
 CC autoimmune disease (e.g. rheumatoid arthritis). The invention further  
 CC comprises a method of identifying an individual that has an altered risk  
 CC of developing an autoimmune disease, comprising detecting a single  
 CC nucleotide polymorphism (SNP) in a nucleic acid of the invention. The DNA  
 CC and protein sequences of the invention are useful for diagnosing and  
 CC treating autoimmune diseases, such as: rheumatoid arthritis, type 1  
 CC diabetes, multiple sclerosis, systemic lupus erythematosus, inflammatory  
 CC bowel diseases, psoriasis, thyroiditis, celiac disease, pernicious  
 CC anaemia, asthma, vitiligo, glomerulonephritis, Grave's disease,  
 CC myocarditis, Sjogren's disease, or primary systemic vasculitis. The  
 CC present nucleic acid represents a human autoimmune disease-related  
 CC genomic DNA sequence of the invention. NOTE: The present sequence is not  
 CC shown in the specification, but has been retrieved from the WIPO website.  
 XX  
 SQ Sequence 321019 BP; 81692 A; 68565 C; 74179 G; 95936 T; 0 U; 647 Other;  
 Query Match 34.08; Score 122; DB 13; Length 321019;  
 Best Local Similarity 76.8%; Pred. No. 4.2e-17;  
 Matches 149; Conservative 0; Mismatches 45; Indels 0; Gaps 0;  
 QY 2 CCGCTAATTTTGTATCTTTTAGTAGACGGCGTTCTCATGTTTGGTCAGGCTGTCT 61  
 DB 167635 CTGTTAATTTTGTATCTTTTAGTAGAGATGGGGTTTCTCAGTTGGTCAGGCTGTTT 167576  
 QY 62 CGAACTTCAAACTTCAGGTGATCGCGCTCGCGCTCCCAAAGTCTAGGATTACAGG 121  
 DB 167575 CGAACTTCTGACCTCAGGTGATCGCGCTCGCGCTCTCAAAGTCTGGGATTACAGG 167516  
 QY 122 CGTGAGCCACGGCGCTCAGGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAATG 181

Db 167515 CGTGAGCCACCGCTCCAGCCAGAGAAATTTTCTAATCTAGGTGTCTACAGAC 167456  
 QY 182 CTTATGAAGCAAA 195  
 Db 167455 AATATGAAGCAAA 167442  
 RESULT 12  
 ABD32707/c  
 ID ABD32707 standard; DNA; 329019 BP.  
 XX  
 AC ABD32707;  
 XX  
 DT 18-NOV-2004 (first entry)  
 XX  
 DE Human cancer-associated genomic DNA HD14-043.  
 XX  
 KW Human; ds; cancer-associated protein; gene; cytostatic; cancer;  
 KW Leukaemia; lymphoma; CAP.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004074320-A2.  
 XX  
 PD 02-SEP-2004.  
 XX  
 PF 17-FEB-2004; 2004WO-US004730.  
 XX  
 PR 14-FEB-2003; 2003US-00367094.  
 PR 14-MAR-2003; 2003US-00388838.  
 PR 15-APR-2003; 2003US-00417375.  
 PR 13-JUN-2003; 2003US-00461862.  
 PR 15-SEP-2003; 2003US-00663431.  
 PR 15-DEC-2003; 2003US-00737318.  
 XX  
 PA (SAGR-) SAGRES DISCOVERY INC.  
 XX  
 PI Morris DW, Morris DW, Malandro MS;  
 XX  
 XX WPI; 2004-652914/63.  
 XX  
 PT New isolated cancer-associated polynucleotides and polypeptides useful  
 PT for diagnosing, preventing or treating cancers, especially lymphoma and  
 PT leukemia, or in screening for agents that modulate cancer.  
 XX  
 PS claim 16; seqid 277; 310pp; English.  
 XX  
 CC The invention relates to an isolated nucleic acid comprising at least 10  
 CC contiguous nucleotides of any of the 233 polynucleotide sequences given  
 CC in the specification, or its complement. The nucleic acids encode cancer-  
 CC associated proteins. Also included are an expression vector comprising  
 CC the isolated nucleic acid cited above, a host cell comprising the above  
 CC recombinant nucleic acid or expression vector, a microarray for detecting  
 CC a cancer-associated (CA) nucleic acid comprising at least one probe  
 CC comprising at least 10 contiguous nucleotides of any of the above-  
 CC mentioned nucleotide sequences, an isolated polypeptide (encoded within  
 CC an open reading frame of a CA sequence selected from any of the 95  
 CC polynucleotide sequences as mentioned in the specification, or its  
 CC complement), an isolated antibody, (or its antigen binding fragment) that  
 CC binds to the above polypeptide, a hybridoma that produces the above  
 CC monoclonal antibody, a pharmaceutical composition comprising the above  
 CC antibody and a pharmaceutical excipient, a kit for detecting cancer  
 CC cells comprising the antibody cited above, methods for diagnosing cancer  
 CC or for detecting the presence or absence of cancer cells in an  
 CC individual, a method for inhibiting growth of cancer cells in an  
 CC individual, a method for delivering a therapeutic agent to cancer cells  
 CC in an individual, an electronic library comprising the above  
 CC polynucleotide or polypeptide (or their fragments), methods of screening  
 CC for anticancer activity or for a bioactive agent capable of modulating  
 CC the activity of a CA protein (CAP), methods for detecting cancer  
 CC associated with expression of a polypeptide in a test cell sample, a  
 CC method for treating cancers and a method for inhibiting the expression of

CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP genomic sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

Sequence 329019 BP; 84190 A; 70461 C; 76072 G; 98276 T; 0 U; 20 Other;

Query Match 34.0%; Score 122; DB 13; Length 329019;  
Best Local Similarity 76.8%; Pred. No. 4.2e-17;  
Matches 149; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 2 CCGGCTAATTTTGTATCTTTAGTAGAGACGCGTTCCTCCATGTTGGTCAGGCTGGTCT 61  
DB 171636 CTGGTTAATTTTGTATTTTATTTAGTAGAGATGGGTTCTCCATGTTGGTCAGGCTGGT 171577  
QY 62 CGAATCTCAAACTCAGGTGATCCGCGCGCTCGGCTCCCAAAGTGTAGGATTACAGG 121  
DB 171576 CGAATCTCTGACCTCAGGTGATCCGCGCGCTCAGCCTCTCAAAGTGTGGGATTACAGG 171517  
QY 122 CCGTAGCCACCGGCTCAGCTGCGGACACCTTTCTTACATCTTCAAGTGTAGAAATG 181  
DB 171516 CCGTAGCCACCGGCTCAGCTGCGGACAGAAATTTTCTTACATCTTCAAGTGTGTACAGAC 171457  
QY 182 CTTATGMAAACGAA 195  
DB 171456 AATATGAAGCAAA 171443

RESULT 13  
ABL83966/c  
ID ABL83966 standard; cDNA; 381 BP.

AC ABL83966;  
XX  
DT 17-MAY-2002 (first entry)  
DE Human ovarian cancer related cDNA clone SEQ ID NO:6944.  
XX Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.  
XX Homo sapiens.  
XX WO200192581-A2.  
XX 06-DEC-2001.  
XX 29-MAY-2001; 2001WO-US017756.  
XX 26-MAY-2000; 2000US-0207484P.  
XX (CORI-) CORIXA CORP.  
XX Algate PA, Harlocker SL, Jones R;  
XX WPI; 2002-122075/16.

Composition for therapy and diagnosis of ovarian cancer comprising polypeptide of a ovarian tumor polypeptide, polynucleotide encoding polypeptide, antibody specific to polypeptide or T cell expressing polypeptide.

Claim 1; SEQ ID NO 6944; 489pp; English.

The present invention describes a composition (I) comprising: carriers and immunostimulants; and a polypeptide (II) of a ovarian tumour CC polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1) from the 10912 nucleotide sequences as given in ABL77023 to ABL87934, (III) encoding (II) having a sequence (S2), a T cell population of (II), CC or antigen presenting cells that express (II); (I) has cytostatic CC activity. An oligonucleotide (IV) that hybridises to (S1) can be used for CC

detecting ovarian cancer in a patient's biological sample preferably serum or ovarian tissue. The method comprises contacting a biological sample from a patient with (IV), detecting the amount of polynucleotide hybridising to (IV) and comparing the amount to a predetermined cutoff value and thereby detecting ovarian cancer in the patient, where the amount of polynucleotide hybridising to (IV) is detected preferably by polymerase chain reaction (PCR). (I) comprising (III) and/or (II) is useful for stimulating and/or expanding T cells specific for an ovarian CC tumour protein comprising contacting T cells with (III) or (II). (III) is useful in design and preparation of ribozyme molecules for inhibiting CC expression of the tumour polypeptides and proteins in tumour cells; and CC to isolate a full length gene from a suitable library e.g., a tumour cDNA CC library using well known techniques

Sequence 381 BP; 115 A; 83 C; 91 G; 92 T; 0 U; 0 Other;

Query Match 33.9%; Score 121.8; DB 6; Length 381;  
Best Local Similarity 77.8%; Pred. No. 1.4e-17;  
Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 1 CCCGCTAATTTTGTATCTTTAGTAGAGACGCGTTCCTCCATGTTGGTCAGGCTGGTCT 60  
DB 328 CCCGCTAATTTTGTATCTTTAGTAGAGACGAGGTTTCGCCATGTTGCCAGGCTGGTCT 269  
QY 61 TCGAATCTCAAACTCAGGTGATCCGCGCGCTCGGCTCCCAAAGTGTAGGATTACAG 120  
DB 268 TCGAATCTCTGACCTCAGGTGATCCACCGGCTCGGCTCCCAAAGTGTGGGATTACAG 209  
QY 121 GCGTAGCCACCGGCTCAGCTGCGGACACCTTTCTTACATCTTCAAGTGTCTAGAAAT 180  
DB 208 GCGTAGCCACCGGCTGCGGACAGATAGGTTTCTTCACTTGCATGATCAGTAGAAAT 149  
QY 181 GCTTATGAA 189  
DB 148 GGCATCA 140

RESULT 14  
ACF91521/c  
ID ACF91521 standard; DNA; 546 BP.

AC ACF91521;  
XX  
DT 02-JUN-2005 (first entry)  
DE Human SIRS/sepsis diagnostic marker DNA fragment 10381.  
XX Systemic inflammatory response syndrome; SIRS; antibacterial;  
KW immunosuppressive; antiinflammatory; diagnosis; sepsis; ds.  
XX Homo sapiens.  
XX WO2004087949-A2.  
XX 14-OCT-2004.  
XX 31-MAR-2004; 2004WO-EP003419.  
XX 02-APR-2003; 2003DE-01015031.  
PR 08-AUG-2003; 2003DE-01036511.  
PR 02-SEP-2003; 2003DE-01040395.  
XX (SIRS-) SIRS LAB GMBH.  
XX Russwurm S, Reinhart K, Saluz H, Straube E, Zipfel PF, Deigner H;  
XX WPI; 2004-748070/73.

In vitro detection of systemic inflammatory response syndrome and related conditions, for e.g. monitoring progression, comprises detecting abnormal expression of disease-related genes.

Disclosure; Page: 75pp; German.



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GenCore version 5.1.8  
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OM nucleic - nucleic search, using sw model

Run on: May 6, 2006, 19:34:56 ; Search time 2648 Seconds  
(without alignments)  
6343.113 Million cell updates/sec

Title: US-10-009-579a-5\_COPY\_3188\_3546  
Perfect score: 359  
Sequence: 1 cccggctaatttgatctt.....tttttatagtgtctcgaa 359

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0  
Searched: 41078325 seqs, 23393541228 residues  
Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:\*  
1: gb\_est1:\*  
2: gb\_est2:\*  
3: gb\_est3:\*  
4: gb\_hic:\*  
5: gb\_est4:\*  
6: gb\_est5:\*  
7: gb\_est6:\*  
8: gb\_est7:\*  
9: gb\_gss1:\*  
10: gb\_gss2:\*  
11: gb\_gss3:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
C 1	124.4	34.7	1071	1	AL520459
C 2	124.4	34.7	1686	4	CR619941 full-leng
C 3	124.4	34.7	1755	4	CR609780 full-leng
C 4	123.8	34.5	2825	4	CR926093 Pongo pyg
C 5	123.4	34.4	206	1	AA678616 ah03c11.s
C 6	123	34.3	410	8	T96411 Ye34e04.s1
C 7	123	34.3	624	9	AQ419825 RFCI-11-1
C 8	122.4	34.1	202	1	AA368329 EST79571
C 9	121.8	33.9	350	7	CK823193
C 10	121.8	33.9	354	1	AW078821 xa99h09.x
C 11	121.8	33.9	355	1	AW511507
C 12	121.8	33.9	363	1	AW390284 CM2-ST018
C 13	121.8	33.9	364	6	CB068575 i630a03.x
C 14	121.8	33.9	366	1	AI347665 qp01c06.x
C 15	121.8	33.9	376	1	AA644223 ab63e10.s
C 16	121.8	33.9	381	1	AA581498
C 17	121.8	33.9	393	1	AI472736
C 18	121.8	33.9	398	2	BF475466 nac30h01
C 19	121.8	33.9	411	3	BQ101225 ij25f02.y
C 20	121.8	33.9	421	1	AW440568 xt15e04.x
C 21	121.8	33.9	422	2	BE892611
C 22	121.8	33.9	438	1	AA678932 ah08g03.s

C 23	121.8	33.9	449	1	AW081610
C 24	121.8	33.9	460	2	BE301610
C 25	121.8	33.9	471	2	BE677244
C 26	121.8	33.9	476	8	N67313 Yz51e02.s1
C 27	121.8	33.9	493	5	BUI198009
C 28	121.8	33.9	493	7	CM415426
C 29	121.8	33.9	498	3	BM995211
C 30	121.8	33.9	546	1	A1889995
C 31	121.8	33.9	606	5	BQ778458
C 32	121.8	33.9	619	5	BX505458
C 33	121.8	33.9	652	1	AA126814
C 34	121.8	33.9	656	6	CA420015
C 35	121.8	33.9	712	6	CD246087
C 36	121.8	33.9	721	6	CD364665
C 37	121.8	33.9	722	7	CN263776
C 38	121.8	33.9	779	6	CA442904
C 39	121.8	33.9	3426	4	CR857101
C 40	121.8	33.9	3517	4	CR860781
C 41	121.6	33.9	660	3	BM997829
C 42	121.2	33.8	462	9	AQ559212
C 43	121.2	33.8	511	2	BE464585
C 44	120.8	33.6	419	7	CN264773
C 45	120.8	33.6	468	2	BF931566

ALIGNMENTS

RESULT 1  
AL520459/c  
LOCUS AL520459 Homo sapiens NEUROBLASTOMA COT 10-NORMALIZED Homo sapiens  
DEFINITION CDNA clone CS0DB006YA12 3-PRIME, mRNA sequence.  
ACCESSION AL520459  
VERSION AL520459.3 GI:45695996  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 1071)  
AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.  
TITLE Full-length cDNA libraries and normalization  
JOURNAL Unpublished (2001)  
COMMENT On Feb 13, 2001 this sequence version replaced gi:31038800.  
Contact: Genoscope  
Genoscope - Centre National de Sequencage  
2 rue Gaston Cremieux, Cp 5706 - 91057 EVRY cedex - FRANCE  
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr  
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 6092.x  
For more information about this cluster, see  
http://www.genoscope.cns.fr/cdna?s=CS0DB006BA06NP1ac=6092.x.

FEATURES  
Location/Qualifiers  
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/db\_xref="taxon:9606"  
/clone="CS0DB006YA12"  
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Query Match 34.7%; Score 124.4; DB 1; Length 1071;

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Best Local Similarity 86.7%; Pred. No. 8.9e-13;
Matches 137; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGTC 60
Db 312 CCCGGCTAATTTTGTATCTTTTGTAGAGACGGGGTTTCTCCATGTTGGTCAGGCTGTC 253

QY 61 TCGAACTTCAAACTCAGGTGATCCGCCGCTCCGGCTCCCAAAGTCTAGGATTACAG 120
Db 252 TCGAACTCTGACCTCATGTGATCCGCCGCTCCGGCTTCCCAAAGTCTGGGATTACAG 193

QY 121 GGGTGAGCCACCGCGCTCAGCTCGGGAACACCTTTTCT 158
Db 192 GGGTGAGCTACCGGCCCGCCAGCTCGGTAGAGCCTTTT 155

CR619941 1686 bp mRNA linear HTC 21-JUL-2004
full-length cDNA clone CS0DF033YI08 of Fetal brain of Homo sapiens
(human).
RESULT 2
CR619941
LOCUS
DEFINITION
ACCESSION CR619941.1 GI:50500748
VERSION
KEYWORDS HTC; CNSLT_cDNA.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Paraday Avenue
2 (bases 1 to 1686)
Direct Submission
Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : segref@genoscope.cns.fr
- Web : www.genoscope.cns.fr)
COMMENT 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
Location/Qualifiers
source 1..1686
/organism="Homo sapiens"
/mol_type="mRNA"
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/clone="CS0DF033YI08"
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/plasmid="pCMVSPORT_6"

ORIGIN
Query Match 34.7%; Score 124.4; DB 4; Length 1686;
Best Local Similarity 86.7%; Pred. No. 8.2e-13;
Matches 137; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGTC 60
Db 1404 CCCGGCTAATTTTGTATTTTGTAGTAGACGGGGTTTCTCCATGTTGGTCAGGCTGTC 1463

QY 61 TCGAACTTCAAACTCAGGTGATCCGCCGCTCCGGCTCCCAAAGTCTAGGATTACAG 120
Db 1464 TCGAACTCTGACCTCATGTGATCCGCCGCTCCGGCTTCCCAAAGTCTGGGATTACAG 1523

QY 121 GGGTGAGCCACCGCGCTCAGCTCGGGAACACCTTTTCT 158
Db 1524 GGGTGAGCTACCGGCCCGCCAGCTCGGTAGAGCCTTTT 1561

Best Local Similarity 86.7%; Pred. No. 8.9e-13;
Matches 137; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGTC 60
Db 312 CCCGGCTAATTTTGTATTTTGTAGAGACGGGGTTTCTCCATGTTGGTCAGGCTGTC 253

QY 61 TCGAACTTCAAACTCAGGTGATCCGCCGCTCCGGCTCCCAAAGTCTAGGATTACAG 120
Db 252 TCGAACTCTGACCTCATGTGATCCGCCGCTCCGGCTTCCCAAAGTCTGGGATTACAG 193

QY 121 GGGTGAGCCACCGCGCTCAGCTCGGGAACACCTTTTCT 158
Db 192 GGGTGAGCTACCGGCCCGCCAGCTCGGTAGAGCCTTTT 155

CR619941 1755 bp mRNA linear HTC 21-JUL-2004
full-length cDNA clone CS0DB006YA12 of Neuroblastoma Cot
10-normalized of Homo sapiens (human).
RESULT 3
CR609780
LOCUS
DEFINITION
ACCESSION CR609780.1 GI:50490587
VERSION
KEYWORDS HTC; CNSLT_cDNA.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Paraday Avenue
2 (bases 1 to 1755)
Direct Submission
Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : segref@genoscope.cns.fr
- Web : www.genoscope.cns.fr)
COMMENT 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DB006YA12"
/tissue_type="Neuroblastoma Cot 10-normalized"
/plasmid="pCMVSPORT_6"

ORIGIN
Query Match 34.7%; Score 124.4; DB 4; Length 1755;
Best Local Similarity 86.7%; Pred. No. 8.2e-13;
Matches 137; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTGTAGTAGACGGCGTTCTCCATGTTGGTCAGGCTGTC 60
Db 1444 CCCGGCTAATTTTGTATTTTGTAGTAGACGGGGTTTCTCCATGTTGGTCAGGCTGTC 1503

QY 61 TCGAACTTCAAACTCAGGTGATCCGCCGCTCCGGCTCCCAAAGTCTAGGATTACAG 120
Db 1504 TCGAACTCTGACCTCATGTGATCCGCCGCTCCGGCTTCCCAAAGTCTGGGATTACAG 1563

QY 121 GGGTGAGCCACCGCGCTCAGCTCGGGAACACCTTTTCT 158
Db 1564 GGGTGAGCTACCGGCCCGCCAGCTCGGTAGAGCCTTTT 1601

CR926093 2825 bp mRNA linear HTC 06-DEC-2004
Pongo pygmaeus mRNA; cDNA DKFp45902210 (from clone DKFp45902210).
RESULT 4
CR926093/c
LOCUS
DEFINITION
ACCESSION CR926093
VERSION CR926093.1 GI:56403867
KEYWORDS HTC.
SOURCE Pongo pygmaeus (orangutan)
ORGANISM Pongo pygmaeus
REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Pongo.
1 (bases 1 to 2825)
Wambutt,R., Heubner,D., Mewes,H.W., Weil,B., Amid,C., Osanger,A.,
```

CONSRMTM	Fobo, G., Han, M. and Wiemann, S.	DEFINITION	ah03c11.s1 Gessler Wilms tumor Homo sapiens cDNA clone
TITLE	The German cDNA Consortium	IMAGE	IMAGE:1155572 3' similar to contains Alu repetitive element;; mRNA
JOURNAL	Submitted (12-NOV-2004) MIPS, Ingolstaedter Landstr.1, D-85764	ACCESSION	AA678616
	Neuberberg, GERMANY	VERSION	AA678616.1 GI:2659138
COMMENT	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by Agowa (Berlin/Germany) within the cDNA sequencing consortium of the German Genome Project.	KEYWORDS	EST.
	This clone (DKFZp45902210) is available at the RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. please contact RZPD for ordering:	SOURCE	Homo sapiens (human)
	http://www.rzpd.de/cgi-bin/products/cl.cgi?CloneID=DKFZp45902210	ORGANISM	Homo sapiens
	Further information about the clone and the sequencing project is available at http://mips.gsf.de/projects/cdna/.		Mammalia; Euzozoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
FEATURES	Location/Qualifiers	REFERENCE	1. (bases 1 to 206)
source	1..2825	AUTHORS	Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisler, G., Jost, S., Kitzman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.
gene	/organism="Homo sapiens"		WashU-NCI human EST Project
CDS	/mol_type="mRNA"		Unpublished (1997)
	/db_xref="taxon:9606"		Contact: Wilson RK
	/clone="DKFZp45902210"		Washington University School of Medicine
	/tissue_type="cortex"		4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
	/clone_lib="459 (synonym: pcor1). Vector pSport1_Sfi; host DH10B; sites SfiIa + SfiIb"		Tel: 314 286 1800
	/dev_stage="adult"		Fax: 314 286 1810
	/note="Gamma-tubulin complex component 4 (Homo sapiens), N-terminus truncated"		Email: eschwatson.wustl.edu
	1..2825		This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information.
	/gene="DKFZp45902210"		Seq primer: -40m13 fwd. ET from Amersham
	<3..1979		High quality sequence stop: 206.
	/codon_start=1	FEATURES	Location/Qualifiers
	/product="hypothetical protein"	source	1..206
	/protein_id="CAI29719.1"		/organism="Homo sapiens"
	/db_xref="GI:56403868"		/mol_type="mRNA"
	/translation="LSGYPGSIFTNKRSGLQVSDPFLPSETSVLNLRLGLGTDY		/db_xref="taxon:9606"
	IRPTEIEQYTHVQODHHPQOQGGHGLVLAFCFTGLDSVLQPVKQALLDLEQ		/clone="IMAGE:1155572"
	FLGDPLHSIHNYSLDQQLPSPVNVVQIKSKQIHGCOILETVKHSKGLPPV		/sex="pooled (6)"
	ISALEKILAVCHGMTQKLSANMLHGLLDQHEEPIKQSPSGSNVSAQPEDEDLG		/lab_host="DH10B"
	IGGLTKQKRELDQLEIIEENMLAPSLKQFLSRVILPSYIPRVAEKILFVGEISV		/clone_lib="Gessler Wilms tumor"
	MFENQVNIITRQKSLIKNOEDTFAELHKLKQPLFSLVDVDFQVVDIRISTVAHLK		/note="Vector: pSPORT1; Site 1: Sall; Site 2: NotI; RNA
	LMVEESDILGKLKIKIDFYLLGRLGELFOAIDTAHMLKTPPTAVTEHDVNVAFQSA		was prepared from a pool of 6 anonymous Wilms' tumor RNAs.
	HKVLLDDNLLPLLEKTVYKVLSSVRRVQAEILHCWALQMOKHLSKNOTDAIKWL		RNA was prepared by acid-phenol, followed by one round of
	QNPFLHLPVAVLEKYNVYKVLSSVRRVQAEILHCWALQMOKHLSKNOTDAIKWL		oligo dr selection. cDNA library preparation was with
	RNHMLFLVDNLQTYLVDSQFSLHQLQINSTRDPESIRLAHDFLSNLLAQSFIL		the BRL/Life Tech. Superscript Plasmid system. An
	LKPVFCHLEILDLCFSCLSVQNLGPIIDRGAQLSILVKGFSQSSLLFKLLSSV		oligo-dr NotI primer for first strand synthesis generated
	RNHQINSDLAQLLLRLDYNKYTTQAGGTILGSFGM"		cgccgcgcc(t)n at the 3' end of the clones. A 5' Sall
			adaptor was used with sequence 5'-gtcagccacgcgtccg-3'.
ORIGIN			Resulting cDNAs were size selected (average size 2 kb),
			NotI digested, and ligated into NotI/Sall-cut pSPORT1.
			Library was constructed by Dr. Manfred Gessler."
Query Match	34.5%; Score 123.8; DB 4; Length 2825;	ORIGIN	
Best Local Similarity	69.9%; Pred. No. 9.6e-13;	Query Match	34.4%; Score 123.4; DB 1; Length 206;
Matches 167; Conservative	0; Mismatches 72; Indels 0; Gaps 0;	Best Local Similarity	78.3%; Pred. No. 1.8e-12;
		Matches 148; Conservative	0; Mismatches 41; Indels 0; Gaps 0;
QY	1 CCGCGCTAATTTTGTATCTTTTAGTAGACGCGCTTCCTCCATGTTGGTCAGCGTGGTC 60	QY	1 CCGCGCTAATTTTGTATCTTTTAGTAGACGCGCTTCCTCCATGTTGGTCAGCGTGGTC 60
Db	2659 CCTAGCTAATTTTGTATCTTTTAGTAGATTCGGGGTTTCATCATGTTGGTCAGCGTGGCC 2600	Db	192 CCCAGCTAATTTTGTACTTTTAGTAGACGAGGTTTCGCCATGTTGGCAGCGTGGTC 133
QY	61 TCGAACTTCAAACTCAGGTGATCCGCCCGCTCGGCCTCCCAAAGTGTAGATTACAG 120	QY	61 TCGAACTTCAAACTCAGGTGATCCGCCCGCTCGGCCTCCCAAAGTGTAGATTACAG 120
Db	2599 TCAAACTCTTGACTTCAGGTGATCCGCCCGCTCGGCCTCCCAAAGTGTGGGATTACAG 2540	Db	132 TCGAACTCTGACCTCAGGTGATCCACCGCGCTTCGCGCTTCGCGGATTACAG 73
QY	121 GCGTGAGCCACCGCGCTCAGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180	QY	121 GCGTGAGCCACCGCGCTCAGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db	2539 GTGTGAGCCACCATGCCCGCGCTCAAGAAATACTTTAAGTATATATTTTCATTAGTAGAAT 2480	Db	72 GCGTGAGCCACCGTGCCTGCCAGTAGATAGGTTTTTTCTTTCAACTGATCTAGAAAT 13
QY	181 GCTTATGAACGAAAAAGAAATTTTAAAGTAATTTATATAAGAAACACATCTTTCTT 239	QY	181 GCTTATGAA 189
Db	2479 GCCCAATCTGTAGGTATAAATTTACTTTGTTAGGGAGAGAAACCTTATCTTACCT 2421	Db	12 GGACATCAA 4
RESULT 5		RESULT 6	
AA678616/c		AA678616	
LOCUS	206 bp mRNA linear EST 02-DEC-1997	LOCUS	T96411/c

LOCUS T96411 410 bp mRNA linear EST 27-MAR-1995  
DEFINITION Yez4e04.s1 Stratagene lung (#937210) Homo sapiens cDNA clone  
IMAGE:119646 3' similar to contains Alu repetitive element; , mRNA  
sequence.

ACCESSION T96411 GI:735035  
VERSION T96411.1  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 410)  
AUTHORS Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,  
Chisoso,S., Dietrich,N., DuBuque,T., Favello,A., Gish,W.,  
Hawkins,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N.,  
Mardis,E., Moore,B., Morris,M., Parsons,J., Prange,C., Rifkin,L.,  
Rohlfing,T., Schellenberg,K., Soares,M.B., Tan,P., Thierry-Mieg,J.,  
Trevasakis,E., Underwood,K., Wohlmann,P., Waterston,R., Wilson,R.  
and Marra,M.

TITLE Generation and analysis of 280,000 human expressed sequence tags  
JOURNAL Genome Res. 6 (9), 807-828 (1996)  
PUBMED 8889549  
COMMENT Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
High quality sequence stops: 305  
Source: IMAGE Consortium, LLNL  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Seq primer: -21m3  
High quality sequence stop: 305.

FEATURES  
source  
1..410  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="GDB:487935"  
/db\_xref="taxon:9606"  
/clone="IMAGE:119646"  
/sex="male"  
/dev\_stage="72 years"  
/lab\_host="SOLR cells (kanamycin resistant)"  
/clone\_lib="Stratagene lung (#937210)"  
/note="Organ: lung; Vector: pBluescript SK-; Site 1:  
EcoRI; Site 2: XhoI; Cloned unidirectionally. Primer:  
Oligo dt. normal lung. Average insert size: 1.0 Kb;  
Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTCGGCAGCAG  
3' ~3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3'

ORIGIN  
Query Match 34.3%; Score 123; DB 8; Length 410;  
Best Local Similarity 92.8%; Pred. No. 1.9e-12;  
Matches 129; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 4 GCCTAATTTTGTATCTTTTAGTAGAGCGCGTTCCTCCATGTTGGTCAGGCTGGTCTCG 63  
Db 316 GCGCTAATTTTGTATTTTAAGTAGAGACAGGGTTTCTCCATGTTGGTCAGGCTGGTCTCG 257  
QY 64 AACTTCAAACTCAGGTGATCCCGCGCTTCGGCTCCCAAGTGTAGATTACAGGCG 123  
Db 256 AACTCCCACTCAGGTGATCCCGCGCTTCGGCTCCCAAGTGTCTCGATTACAGGCG 197  
QY 124 TGAGCCACCGCGCTCAGCC 142  
Db 196 TGAGCCACCGCGCCAGCC 178

RESULT 7  
AAQ19825  
LOCUS

DEFINITION AAQ19825 624 bp DNA linear GSS 23-MAR-1999  
IMAGE:119646 3' similar to contains Alu repetitive element; , mRNA  
sequence.

ACCESSION AAQ19825  
VERSION AAQ19825.1  
KEYWORDS GSS.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 624)  
AUTHORS Zhao,S., Adams,M.D., Nierman,W., Malek,J., de Jong,P. and  
Venter,J.C.

TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready  
Map Building  
JOURNAL Unpublished (1997)  
COMMENT Other GSSs: RPCI-11-179F14.TV  
Contact: Shaying Zhao, William Nierman, Mark Adams  
Department of Eukaryotic Genomics  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850  
Tel: 301 838 0200  
Fax: 301 838 0208  
Email: hbe@tigr.org  
Clones are derived from the human BAC library RPCI-11. For BAC  
library availability, please contact Pieter de Jong  
(pieter@jong.med.buffalo.edu). Clones may be purchased from  
BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from  
Research Genet cs ([info@resgen.com](http://info@resgen.com)). BAC end search page:  
[http://www.tigr.org/tldb/humgen/bac\\_end\\_search/bac\\_end\\_search.html](http://www.tigr.org/tldb/humgen/bac_end_search/bac_end_search.html).  
Seq primer: SP6  
Class: BAC ends.

FEATURES  
source  
1..624  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="GDB:756845"  
/db\_xref="taxon:9606"  
/clone="RPCI-11-179F14"  
/sex="Male"  
/cell\_type="Lymphocytes"  
/clone\_lib="RPCI-11"  
/note="Vector: pBACE3.6; Site 1: EcoRI; Site 2: EcoRI;  
RPCI11 Human Male BAC Library"

ORIGIN  
Query Match 34.3%; Score 123; DB 9; Length 624;  
Best Local Similarity 75.4%; Pred. No. 1.8e-12;  
Matches 153; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
QY 2 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTCT 61  
Db 257 CCGGCTAATTTTGTATTTTAGTAGATGAGTTTCGCCATGTTGGCCAGGCTAGTCT 316  
QY 62 CGAAGTTCAACCTCAGGTGATCCCGCGCTTCGGCTCCCAAGTGTAGATTACAGG 121  
Db 317 TGAAGTCTGACCTCAGGTGATCCACCTGCGCTCCCAAGTGTGGGATTACAGG 376  
QY 122 CQTGAGCCACCGCGCTCAGCGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAATG 181  
Db 377 CQTGAGCCACCGCGCTCCAGCCAGCCAGGAACTCTTTCTAATGATTCTTCCCTCAATCTC 436  
QY 182 CTTATGAAAAACGAAAAAATTT 204  
Db 437 CTGTTTGAAGGAGAAAAAGTTT 459

RESULT 8  
AA368329/c  
LOCUS  
DEFINITION AA368329 202 bp mRNA linear EST 21-APR-1997  
IMAGE:119646 3' similar to contains Alu repetitive element; , mRNA  
sequence.

ACCESSION AA368329



VERSION KEYWORDS SOURCE ORGANISM	AA368329.1 GI:2020648		TITLE JOURNAL COMMENT		WashU-Harvard Pancreas EST Project Unpublished (2000) Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue Endocrine Pancreas Consortium Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138 Tel: 617-495-1812 Fax: 617-495-8557 Email: dmelton@biohp.harvard.edu This read is a 5' RESEQUENCE of a previously sequenced pancreas clone This read has been verified (found to hit its original self in the correct orientation) Seq primer: -40RP from Gibco.	
	Homo sapiens (human)				Location/Qualifiers	
	Homo sapiens				1..350	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:6135699" /sex="Both" /tissue_type="Islets of Langerhans" /dev_stage="Adult" /lab_host="DH10B" /clone_lib="Melton Normalized Human Islet 4 N4-HIS 1" /note="Organ: Pancreas; Vector: pSPORT1; Site 1: Not 1; Site 2: Sal 1; Starting library constructed using SuperScript Plasmid Library kit (Life Technologies). cDNA made by oligo-dr priming. Size-selected by column fractionation; average insert size 1.08 kb. Library was amplified once on solid support and plasmid DNA from method #4 from Bonaldo, Lennon, and Soares 1996 Genome Research 6:791-806; 0.5 microgram single-stranded library plasmid DNA was mixed with 5 micrograms PCR product representing library inserts and hybridized to an EcoT of 20. Single-stranded (unhybridized) plasmids were isolated by hydroxyapatite chromatography and used to make this library."	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	1 (bases 1 to 202) Adams,M.D., Soares,M.B., Kerlavage,A.R., Fields,C. and Venter,J.C. Rapid cDNA sequencing (expressed sequence tags) from a directionally cloned human infant brain cDNA library Nat. Genet. 4, 373-380 (1993) 8401585 Contact: Kerlavage, AR Bioinformatics The Institute for Genomic Research 9712 Medical Center Drive, Rockville, MD 20850 USA Tel: 3018699056 Fax: 3018699423 Email: arkerlav@tigr.org For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index ( <a href="http://www.tigr.org/tdb/hgi/hgi.html">http://www.tigr.org/tdb/hgi/hgi.html</a> ) Seq primer: M13 Reverse.				FEATURES source	
	Homo sapiens				Location/Qualifiers	
	Homo sapiens				1..202	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				/organism="Homo sapiens" /mol_type="mRNA" /db_xref="ATCC (inhost):173016" /db_xref="taxon:9606" /tissue_type="placenta" /dev_stage="fetus" /clone_lib="Placenta 1" /note="Organ: placenta; Vector: pBluescript SK-; Site 1: EcoRI; Site 2: EcoRI"	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	34.1%; Score 122.4; DB 1; Length 202; Best Local Similarity 86.5%; Pred. No. 2.8e-12; Matches 135; Conservative 0; Mismatches 21; Indels 0; Gaps 0;				ORIGIN	
	1 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGCGTTCCTCCATGTTGGTCAGCGCTGGTC 60				Query Match 33.9%; Score 121.8; DB 7; Length 350; Best Local Similarity 77.8%; Pred. No. 3.2e-12; Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;	
	170 CCGGGCTAATTTTGTATCTTTTAGTAGAGATGGGTTTCTCCATGTTGGTCAGCGCTGGTC 111				QY 1 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGCGTTCCTCCATGTTGGTCAGCGCTGGTC 60	
	61 TCGAACTTCAAACTTCAGGTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 120				Db 58 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGCGTTCCTCCATGTTGGTCAGCGCTGGTC 117	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	110 TCGAACTTCAAACTTCAGGTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 51				QY 61 TCGAACTTCAAACTTCAGGTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 120	
	121 GCCTGAGCCACCGCGCTCAGCTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 156				Db 118 TCGAACTTCAAACTTCAGGTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 177	
	50 GCATGAGCCACCGCGCTCGGCTCGGCTCGGCTCGGCTCGGCTCGGCTCGGCTCGGCT 15				QY 121 GCCTGAGCCACCGCGCTCAGCTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 180	
	CK823193 350 bp mRNA linear EST 11-MAR-2004				Db 178 GCCTGAGCCACCGCGCTCAGCTGATCGCGCCCTCGGCTCCCAAGTGTCTAGGATTACAG 237	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	125f02.y5 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens				QY 181 GCTTATGAA 189	
	cDNA clone IMAGE:6135699 5', mRNA sequence.				Db 238 GGACATCAA 246	
	CK823193.1 GI:44840118				RESULT 10	
	EST.				AW078821/c	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	Homo sapiens (human)				LOCUS	
	Homo sapiens				DEFINITION	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				AW078821	
	1 (bases 1 to 350) Melton,D., Meadows,A., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blistain,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCaun,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.				354 bp mRNA linear EST 14-OCT-1999 xa99h09.x1 NCI CGAP Col17 Homo sapiens cDNA clone IMAGE:2574977 3', similar to contains Alu repetitive element; contains element MBR20 repetitive element ;, mRNA sequence.	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	CK823193				ACCESSION	
	125f02.y5				VERSION	
	cDNA clone IMAGE:6135699 5', mRNA sequence.				KEYWORDS	
	CK823193.1 GI:44840118				EST.	
REFERENCE AUTHORS TITLE JOURNAL PUBMED COMMENT	Homo sapiens (human)				Homo sapiens (human)	
	Homo sapiens				Homo sapiens	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.	
	1 (bases 1 to 350) Melton,D., Meadows,A., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blistain,A., Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J., Cardenas,M., Gibbons,M., McCaun,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.				354 bp mRNA linear EST 14-OCT-1999 xa99h09.x1 NCI CGAP Col17 Homo sapiens cDNA clone IMAGE:2574977 3', similar to contains Alu repetitive element; contains element MBR20 repetitive element ;, mRNA sequence.	

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
1 (bases 1 to 354)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
JOURNAL  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: c9apbs-r@mail.nih.gov  
Tissue Procurement: Chris Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D. cDNA Library Prepared by: Greg Lennon, Ph.D.  
I.M.A.G.E. Consortium DNA Sequencing by: Christina Prange, The  
Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
Seq primer: -40UP from Gibco  
High quality sequence stop: 341.  
Location/Qualifiers  
FEATURES  
source  
1..354  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2574977"  
/tissue\_type="juvenile granulosa tumor"  
/lab\_host="DH10B"  
/clone\_lib="NCI-CGAP Col7"  
/note="Organ: colon; Vector: pCMV-SPORT6; Site 1: SalI;  
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt.  
Library constructed by Life Technologies."

Query Match 33.9%; Score 121.8; DB 1; Length 354;  
Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 1 CCCGCTAATTTTGTATCTTTTAGTAGACGCGTCTCCATGTTGGTCAGGCTGGTC 60  
|||||  
Db 328 CCCAGCTAATTTTGTACTTTTAGTAGACGAGGTTTCGCATGTTGGCCAGGCTGGTC 269  
QY 61 TCGAACTTCAACCTCAGGTGATCCGCGCTCGGCTCCCAAGTGTAGGATTACAG 120  
|||||  
Db 268 TCGNACTCTGACCTCAGGTGATCCACCGCTCGGCTCCCAAGTGTGGATTACAG 209  
QY 121 GCGTAGCCACCGCTCAGCTGAGCTGGGACACCTTTTCTTACATCTTCAAGTCTAGAAAT 180  
|||||  
Db 208 GCGTAGCCACCGTGCCTGCCAGAAATAGGTTTTTCTTCAACTTGCATAGAAAT 149  
QY 181 GCTTATGAA 189  
Db 148 GGACATCAA 140  
RESULT 11  
AW511507/c  
LOCUS AW511507 355 bp mRNA linear EST 03-MAR-2000  
DEFINITION xus7a01.x1 NCI-CGAP Ut1 Homo sapiens cDNA clone IMAGE:2805768 3'  
similar to contains Alu repetitive element;; mRNA sequence.  
ACCESSION AW511507  
VERSION AW511507.1 GI:7149509  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
1 (bases 1 to 355)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
1 (bases 1 to 354)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
JOURNAL  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: c9apbs-r@mail.nih.gov  
Tissue Procurement: Chris Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D. cDNA Library Prepared by: Greg Lennon, Ph.D.  
I.M.A.G.E. Consortium DNA Sequencing by: Christina Prange, The  
Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www-bio.llnl.gov/bbrp/image/image.html)  
Seq primer: -40UP from Gibco  
High quality sequence stop: 341.  
Location/Qualifiers  
FEATURES  
source  
1..355  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2805768"  
/tissue\_type="well-differentiated endometrial  
adenocarcinoma, 7 pooled tumors"  
/lab\_host="DH10B"  
/clone\_lib="NCI CGAP Ut1"  
/note="Organ: uterus; Vector: pCMV-SPORT6; Site 1: SalI;  
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt.  
Average insert size 1.75 kb. Life Technologies catalog #:  
11538-014"

Query Match 33.9%; Score 121.8; DB 1; Length 355;  
Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 1 CCCGCTAATTTTGTATCTTTTAGTAGACGCGTCTCCATGTTGGTCAGGCTGGTC 60  
|||||  
Db 328 CCCAGCTAATTTTGTACTTTTAGTAGACGAGGTTTCGCATGTTGGCCAGGCTGGTC 269  
QY 61 TCGAACTTCAACCTCAGGTGATCCGCGCTCGGCTCCCAAGTGTAGGATTACAG 120  
|||||  
Db 268 TCGNACTCTGACCTCAGGTGATCCACCGCTCGGCTCCCAAGTGTGGATTACAG 209  
QY 121 GCGTAGCCACCGCTCAGGTGATCCGCGCTCGGCTCCCAAGTGTAGGATTACAG 180  
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Db 208 GCGTAGCCACCGTGCCTGCCAGAAATAGGTTTTTCTTCAACTTGCATAGAAAT 149  
QY 181 GCTTATGAA 189  
Db 148 GGACATCAA 140  
RESULT 12  
AW390284  
LOCUS AW390284 363 bp mRNA linear EST 04-FEB-2000  
DEFINITION CM2-ST0182-221099-023-f05 ST0182 Homo sapiens cDNA, mRNA sequence.  
ACCESSION AW390284  
VERSION AW390284.1 GI:6894943  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
1 (bases 1 to 363)  
HCGP <http://www.ludwig.org.br/ORESTES>.  
The FAPESP/LICR Human Cancer Genome Project  
Unpublished (1999)  
JOURNAL  
COMMENT Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: [asimpson@ludwig.org.br](mailto:asimpson@ludwig.org.br)

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL  
 (http://www.ludwig.org.br/scripts/gethtml2.pl?c1=CM2&t2=CM2-ST0182-221099-023-f05&t3=1999-10-22&t4=1)  
 Seq primer: puc 18 forward  
 High quality sequence stop: 363.

#### FEATURES

Location/Qualifiers  
 1..363  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /dev\_stage="Adult"  
 /clone\_lib="ST0182"

/note="Organ: stomach; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

#### ORIGIN

Query Match 33.9%; Score 121.8; DB 1; Length 363;  
 Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
 Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGTGTCAGGCTGGTC 60  
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 Db 62 CCCAGCTAATTTTGTACTTTTAGTAGAGACGAGGTTTCGCCATGTTGGCCAGGCTGGTC 121  
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QY 61 TCGAACTTCAAACTCAGTGATCGCCGCCCTCGGCCCTCCCAAGTGTAGATTACAG 120  
 |||||

Db 122 TCGAACTCTGACCTCAGTGATCCACCGCCCTCGGCCCTCCAAAGTGTGGATTACAG 181  
 |||||

QY 121 GCGTAGCCACCGCTCAGCGTGGGAACACCTTTTCTTACATCTTCAAGTGTCAAGAAAT 180  
 |||||

Db 182 GCGTAGCCACCGTGTGCGCAGATAGTGTTTTCTTCACTTGTATGATCAGTAGAAAT 241  
 |||||

QY 181 GCTTATGAA 189  
 |||||

Db 242 GGACATCAA 250

RESULT 13  
 CB068575/c  
 LOCUS  
 DEFINITION  
 CB068575 364 bp mRNA linear EST 21-JAN-2003  
 i830a03.x1 HR85 islet Homo sapiens cDNA clone IMAGE:6553806 3',  
 mRNA sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Homo sapiens (human)  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Homidae; Homo.

REFERENCE  
 AUTHORS  
 1 (bases 1 to 364)  
 Melton,D., Brown,J., Kenty,G., Permutt,A., Lee,C., Kaestner,K.,  
 Lemihka,I., Scearce,M., Brestelli,J., Gradwohl,G., Clifton,S.,  
 Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blistain,A.,  
 Schmitt,A., Theising,B., Ritter,E., Ronko,I., Bennett,J.,  
 Cardenas,M., Gibbons,M., McCann,R., Cole,R., Tsagarisshvili,R.,  
 Williams,T., Jackson,X. and Bowers,Y.  
 Endocrine Pancreas Consortium

TITLE  
 JOURNAL  
 COMMENT  
 Unpublished (2000)  
 Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue  
 Endocrine Pancreas Consortium  
 Harvard University, Howard Hughes Medical Institute  
 Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,  
 MA 02138  
 Tel: 617-495-1812  
 Fax: 617-495-8557  
 Email: dmelton@biohp.harvard.edu

Library was constructed by Dr. Hiroshi Inoue DNA sequencing by:  
 Washington University Genome Sequencing Center For information on  
 obtaining a clone please contact: Dr. Hiroshi Inoue  
 (hinoue@im.wustl.edu)

Seq primer: -40RP from Gibco  
 High quality sequence stop: 348.

#### FEATURES

Location/Qualifiers  
 1..364  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:6553806"  
 /tissue\_type="Purified pancreatic islet"

/lab\_host="DH10B"  
 /clone\_lib="HR85 islet"  
 /note="Organ: Pancreas; Vector: pBluescript SK(-); Site 1:  
 NotI, Site 2: XhoI; cDNA made by oligo-dT priming.  
 Size-selected on agarose gel. Average insert size ~1kb. 5'  
 XhoI site was destroyed after directional cloning.  
 Amplified once. Contact information: Hiroshi Inoue, MD,  
 Metabolism Div. (Alan Permutt Lab), Washington University  
 School of Medicine, Box 8127, 660 South Euclid Ave., St.  
 Louis, MO 63110, E-mail: hinoue@imgate.wustl.edu, Tel:  
 314-362-1916, Fax: 314-747-2692."

#### ORIGIN

Query Match 33.9%; Score 121.8; DB 6; Length 364;  
 Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
 Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 1 CCCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGTGTCAGGCTGGTC 60  
 |||||  
 Db 326 CCCAGCTAATTTTGTACTTTTAGTAGAGACGAGGTTTCGCCATGTTGGCCAGGCTGGTC 267  
 |||||

QY 61 TCGAACTTCAAACTCAGTGATCGCCGCCCTCGGCCCTCCCAAGTGTAGATTACAG 120  
 |||||

Db 266 TCGAACTCTGACCTCAGTGATCCACCGCCCTCGGCCCTCCAAAGTGTGGATTACAG 207  
 |||||

QY 121 GCGTAGCCACCGCTCAGCGTGGGAACACCTTTTCTTACATCTTCAAGTGTCAAGAAAT 180  
 |||||

Db 206 GCGTAGCCACCGTGTGCGCAGATAGTGTTTTCTTCACTTGTATGATCAGTAGAAAT 147  
 |||||

QY 181 GCTTATGAA 189  
 |||||

Db 146 GGACATCAA 138

#### RESULT 14

AI347665/c  
 LOCUS  
 DEFINITION  
 AI347665 366 bp mRNA linear EST 02-FEB-1999  
 qp01c06.x1 NCI CGAP Kids Homo sapiens cDNA clone IMAGE:1916746 3',  
 similar to contains\_Alu repetitive element;; mRNA sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Homo sapiens (human)  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Homidae; Homo.

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT  
 1 (bases 1 to 366)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapsb@mail.nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E.B. Consortium/LLNL at:  
www.bio.llnl.gov/bbrp/image/image.html  
Insert Length: 436 Std Error: 0.00  
Seq primer: -40UP from Gibco.

FEATURES  
source

Location/Qualifiers  
1. .366  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1916746"  
/tissue\_type="2 pooled tumors (clear cell type)"  
/lab\_host="DH10B"  
/clone\_lib="NCI CGAP Kid5"  
/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', AACGGAGAATTCGGCGCGCATATATTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo. "

## ORIGIN

Query Match 33.9%; Score 121.8; DB 1; Length 366;  
Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 1 CCCGCTAATTTTGTATCTTTTAGTAGAGCGCGTCTCTCATCTTGGTCAGGCTGGTC 60  
Db 336 CCCAGCTAATTTTGTACTTTTAGTAGAGACGAGGTTTCGCCATCTTGGCCAGGCTGGTC 277  
QY 61 TCGAACTTCAAACTCAGGTGATCCGCCCTCGCGCTCCCAAGTCTAGGATTACAG 120  
Db 276 TCGAACTCTGACCTCAGGTGATCACCGCTTCGGCTTCAAAGTCTGGATTACAG 217  
QY 121 GCGTGAGCCACCGCTCAGCTAGCTGGGAACACCTTTTCTTACATCTTCAAGTCTAGAAAT 180  
Db 216 GCGTGAGCCACCGCTCGTGGCCAGATAGGTTTTTTCTTCAACTTGATCAGTAGAAAT 157  
QY 181 GCTTATGAA 189  
Db 156 GGACATCAA 148

## RESULT 15

## AA644223/c

LOCUS ab63e10.sl Stragatene lung carcinoma 937218 Homo sapiens cDNA clone  
DEFINITION IMAGE:845514 3' similar to contains Alu repetitive element;; mRNA  
sequence.

## ACCESSION

## AA644223

## VERSION

## AA644223.1

## KEYWORDS

## EST.

## SOURCE

## Homo sapiens

## ORGANISM

## Homo sapiens (human)

## Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

## Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

## Homnidae; Homo.

## 1 (bases 1 to 376)

## Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,

## Krizman, D., Lacy, M., Le, N., Lennon, G., Marra, M.,

## Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F.,

## Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.

## WashU-NCI human EST Project

## Unpublished (1997)

## Contact: Wilson RK

## Washington University School of Medicine

## 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

## Tel: 314 286 1800

## Fax: 314 286 1810

## Email: estowatson.wustl.edu

IMAGE Consortium (info@image.llnl.gov) for further information.  
Insert Length: 534 Std Error: 0.00  
Seq primer: -40ml3 fwd, ET from Amersham.

## FEATURES

## source

Location/Qualifiers  
1. .376  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:845514"  
/tissue\_type="lung carcinoma"  
/cell\_line="NCI-H69"  
/dev\_stage="cell line NCI-H69"  
/lab\_host="SOLR (kanamycin resistant)"  
/clone\_lib="Stratagene lung carcinoma 937218"  
/note="Organ: lung; Vector: pBluescript SK-; Site 1:  
EcoRI; Site 2: XhoI; Cloned unidirectionally. Primer:  
Oligo dT. Small cell carcinoma cell line NCI-H69. Average  
insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor  
sequence: 5' GAATTCGACGAG 3' -3' adaptor sequence: 5'  
CTCAGATTTTTTTTTTTTTT 3"

## ORIGIN

Query Match 33.9%; Score 121.8; DB 1; Length 376;  
Best Local Similarity 77.8%; Pred. No. 3.2e-12;  
Matches 147; Conservative 0; Mismatches 42; Indels 0; Gaps 0;  
QY 1 CCCGCTAATTTTGTATCTTTTAGTAGAGCGGCTTCTCATCTTGGTCAGGCTGGTC 60  
Db 330 CCCAGCTAATTTTGTACTTTTAGTAGAGACGAGGTTTCGCCATCTTGGCCAGGCTGGTC 271  
QY 61 TCGAACTTCAAACTCAGGTGATCCGCCCTCGCGCTCCCAAGTCTAGGATTACAG 120  
Db 270 TCGAACTCTGACCTCAGGTGATCCGCCCTCGCGCTTCAAAGTCTGGATTACAG 211  
QY 121 GCGTGAGCCACCGCTCAGCTAGCTGGGAACACCTTTTCTTACATCTTCAAGTCTAGAAAT 180  
Db 210 GCGTGAGCCACCGCTCGTGGCCAGATAGGTTTTTTCTTCAACTTGATCAGTAGAAAT 151  
QY 181 GCTTATGAA 189  
Db 150 GGACATCAA 142

Search completed: May 6, 2006, 20:53:42

Job time : 2657 secs



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US-09-949-016-13173
; Sequence 13173, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13173
; LENGTH: 360470
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13173

Query Match      34.3%; Score 123.2; DB 3; Length 360470;
Best Local Similarity 69.6%; Pred. No. 4.7e-21;
Matches 167; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY      2  CCGGCTAAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCCATGTTGGTCAGGCTGGTCT 61
Db      187435  CTGGCTAAATTTTGTATCTTTTAGTAGAGATGGGTTTACCATGTTGCCACCTGGTCT 187494

QY      62  CGAACTTCAAACCTCAGGTGATCCGCCGCTCGGCCTCCCAAGTGTAGGATTACAGG 121
Db      187495  CGAACTCTGACCTCAGGTGATTTGCCGCTCGGCCTCCCAAGTGTGGGATTACAGA 187554

QY      122  CGTGAGCCACCGGCTCAGCCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAATG 181
Db      187555  CGTGAGCCACCATGCCCGCGTGTCTTTCTTTTAGATAAATTTTGTATTGTTTTCATA 187614

QY      182  CTTATGAAACGAAAAAGAAATTTTAAAGAGTAATTTATAAGAAACACCTCATTTCTTCC 241
Db      187615  CATTCAAGTAAGATATAGATAGCAAGAGAAATTAATAATACCTTCAGCTCTCTCC 187674

RESULT 3
US-09-949-016-17457/c
; Sequence 17457, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17457
; LENGTH: 41182
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(41182)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-17457

Query Match      34.3%; Score 123.2; DB 3; Length 41182;
Best Local Similarity 74.8%; Pred. No. 3e-21;
Matches 154; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY      1  CCGGCTAAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCCATGTTGGTCAGGCTGGTCT 60
Db      16778  CCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGTTTCTCCATGTTGGTCAGGTTGGTCT 16719

QY      61  TCGAACTTCAAACCTCAGGTGATCCGCCGCTCGGCCTCCCAAGTGTAGGATTACAG 120
Db      16718  TCGAACTTCAAACCTCAGGTGATCTGCCGCTCGGCCTCCCAAGTGTGGGATTACAG 16659

QY      121  CGGTGAGCCACCGGCTCAGCTCGGACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db      16658  CGGTGAGCCACCGGCTCGGCAAGAAATTTTCTTCAAGTGAATATATTGCAATTACA 16599

QY      181  GCTTATGAAACGAAAAAGAAATTTTAAAGAGTAATTTATAAGAGTAATTTAAAGAACTCAT 233
Db      16598  CCGTCAAGAGACAAATTAACCAAT 16573

RESULT 4
US-09-949-002-785/c
; Sequence 785, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 785
; LENGTH: 47741
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(47741)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-002-785

Query Match      34.2%; Score 122.6; DB 3; Length 47741;
Best Local Similarity 70.4%; Pred. No. 3.5e-21;
Matches 164; Conservative 0; Mismatches 69; Indels 0; Gaps 0;

QY      1  CCGGCTAAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCCATGTTGGTCAGGCTGGTCT 60
Db      10107  CCGGCTAAATTTTGTGTTTGTAGTAGAGACGGGTTTACCATGTTGCCAGCGGCTCT 10048

QY      61  TCGAACTTCAAACCTCAGGTGATCCGCCGCTCGGCCTCCCAAGTGTAGGATTACAG 120
Db      10047  TCAAACCTCTGACCTCAGGTGATCCGCCGCTCGGCCTCCCAAGTGTGGGATTACGG 9988

QY      121  CGGTGAGCCACCGGCTCAGCTCGGACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db      9987  GTGTGAGCCACCTGCCCGCAGCTGATCTCAATTTTCTTACTATGAAGTAATACAT 9928

QY      181  GCTTATGAAACGAAAAAGAAATTTTAAAGAGTAATTTATAAGAGTAATTTAAAGAACTCAT 233
Db      9927  CGAAACATCGGAGGAAACAAATGGAATAATTAAGAAATTTAAATAATTACAT 9875

RESULT 5
US-09-949-016-14759/c
; Sequence 14759, Application US/09949016
; Patent No. 6812339
```

GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14759  
; LENGTH: 31618  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-14759

Query Match 34.0%; Score 122.2; DB 3; Length 31618;  
Best Local Similarity 83.8%; Pred. No. 3.9e-21;  
Matches 150; Conservative 0; Mismatches 28; Indels 1; Gaps 1;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGACGCGGTTCTCCATGTTGGTCAGGCTGGTC 60  
DB 9317 CCGGCTAATTTTGTAT- TTTTAGTAGAGATGGGTTTCTCCATATTGTCAGGTTGGTC 9259

QY 61 TCGAACTTCAAACTCAGGTGATCCCGCGCTCGCGCTCCCAAGTCTAGGATTACAG 120  
DB 9258 TCGAACTCTTAACCTCAGGTGATCCACCGCTCGCGCTCCCAAGTCTGGGATTACAG 9199

QY 121 GCGTAGCCACCGCGCTCAGCTCGGGAACACCTTTTCTTACATCTTCAAGTCTAGAA 179  
DB 9198 GCGTAGCCACCGCGCTCAGGAAACATGTTTTTAAAGCCACAGAAATGACAGTAA 9140

RESULT 6  
US-09-949-016-25488/c  
; Sequence 25488, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25488  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-25488

Query Match 34.0%; Score 122; DB 3; Length 601;  
Best Local Similarity 84.6%; Pred. No. 1.3e-21;  
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGACGCGGTTCTCCATGTTGGTCAGGCTGGTC 60  
DB 484 CCGGCTAATTTTGTATTTTAGTAGACGCGGTTTACCATGTTGGTCAGGCTGGTC 425

QY 61 TCGAACTTCAAACTCAGGTGATCCCGCGCTCGCGCTCCCAAGTCTAGGATTACAG 120

DB 424 TTGAACCTCCTGACCTCAGGTGATCTGCCGCTCCCAAGTCTGGATTACAG 365

QY 121 GCGTGAGCCACCGCGCTCAGCTCGGAACACCTTTTCTTACA 162  
DB 364 GCGTGAGCCACCGCGCGCCGCGGCAAGTTTACTTTTCTAAAA 323

RESULT 7  
US-09-949-016-25489/c  
; Sequence 25489, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25489  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-25489

Query Match 34.0%; Score 122; DB 3; Length 601;  
Best Local Similarity 84.6%; Pred. No. 1.3e-21;  
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGACGCGGTTCTCCATGTTGGTCAGGCTGGTC 60  
DB 318 CCGGCTAATTTTGTATTTTAGTAGACGCGGTTTCCCATGTTGGTCAGGCTGGTC 259

QY 61 TCGAACTTCAAACTCAGGTGATCCCGCGCTCGCGCTCCCAAGTCTAGGATTACAG 120  
DB 258 TTGAACCTCCTGACCTCAGGTGATCTGCCGCTCCCAAGTCTGGGATTACAG 199

QY 121 GCGTGAGCCACCGCGCTCAGCTCGGAACACCTTTTCTTACA 162  
DB 198 GCGTGAGCCACCGCGCGCCGCGGCAAGTTTACTTTTCTAAAA 157

RESULT 8  
US-09-949-016-25490/c  
; Sequence 25490, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25490  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-25490

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Query Match      34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
DB 315 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 256

QY 61 TCGAACTTCAAACCTCAGGTGATCGCGCGCTCGCGCTCCCAAAGTGTAGGATTACAG 120
DB 255 TTGAACCTCTGACCTCAGGTGATCTGCCGCGCTCGCGCTCCCAAAGTGTGGGATTACAG 196

QY 121 GCGTGAGCCACCGCGCTCAGCTCAGCTGGGAACACCTTTTCTTACA 162
DB 195 GCGTGAGCCACCGCGCGCGCGCAGTTTTTACTTTTTTCTAAAA 154

RESULT 9
US-09-949-016-25491/c
; Sequence 25491, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25491
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-25491

Query Match      34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
DB 165 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 106

QY 61 TCGAACTTCAAACCTCAGGTGATCGCGCGCTCGCGCTCCCAAAGTGTAGGATTACAG 120
DB 105 TTGAACCTCTGACCTCAGGTGATCTGCCGCGCTCGCGCTCCCAAAGTGTGGGATTACAG 46

QY 121 GCGTGAGCCACCGCGCTCAGCTCAGCTGGGAACACCTTTTCTTACA 162
DB 45 GCGTGAGCCACCGCGCGCGCGCAGTTTTTACTTTTTTCTAAAA 4

RESULT 10
US-09-949-016-73666/c
; Sequence 73666, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
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; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73666
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-73666

Query Match      34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
DB 484 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 425

QY 61 TCGAACTTCAAACCTCAGGTGATCGCGCGCTCGCGCTCCCAAAGTGTAGGATTACAG 120
DB 424 TTGAACCTCTGACCTCAGGTGATCTGCCGCGCTCGCGCTCCCAAAGTGTGGGATTACAG 365

QY 121 GCGTGAGCCACCGCGCTCAGCTCAGCTGGGAACACCTTTTCTTACA 162
DB 364 GCGTGAGCCACCGCGCGCGCGCAGTTTTTACTTTTTTCTAAAA 323

RESULT 11
US-09-949-016-73667/c
; Sequence 73667, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73667
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-73667

Query Match      34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
DB 318 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 259

QY 61 TCGAACTTCAAACCTCAGGTGATCGCGCGCTCGCGCTCCCAAAGTGTAGGATTACAG 120
DB 258 TTGAACCTCTGACCTCAGGTGATCTGCCGCGCTCGCGCTCCCAAAGTGTGGGATTACAG 199

QY 121 GCGTGAGCCACCGCGCTCAGCTCAGCTGGGAACACCTTTTCTTACA 162
DB 198 GCGTGAGCCACCGCGCGCGCGCAGTTTTTACTTTTTTCTAAAA 157

RESULT 12
US-09-949-016-73668/c
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; Sequence 73668, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73668
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-73668

Query Match          34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
Db      315 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTTCCACCATGTTGGTCAGGCTGGTC 256

QY      61  TCGAACTTCAAACTCAGGTGATCCCGCCGCTCGGCTCCCAAGTGTAGATTACAG 120
Db      255 TTGAACCTCTGACCTCAGGTGATCTCGCGCTCGGCTCCCAAGTGTGGGATTACAG 196

QY      121 GCGTGAGCCACCGGCTCAGCTGAGTCCCGCCGCTCGGCTCCCAAGTGTAGATTACAG 162
Db      195 GCGTGAGCCACCGGCTCGGCTCGGCTCCCAAGTGTAGATTACAGTTTACTTTTCTAAAA 154

RESULT 13
US-09-949-016-73669/c
; Sequence 73669, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73669
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-73669

Query Match          34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
Db      165 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTTCCACCATGTTGGTCAGGCTGGTC 106

; Sequence 73668, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73668
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-73668

Query Match          34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
Db      105 TTGAACCTCTGACCTCAGGTGATCTCGCGCTCGGCTCCCAAGTGTGGGATTACAG 46

QY      121 GCGTGAGCCACCGGCTCAGCTGAGTCCCGCCGCTCGGCTCCCAAGTGTAGATTACAG 162
Db      45 GCGTGAGCCACCGGCTCGGCTCGGCTCCCAAGTGTAGATTACAGTTTACTTTTCTAAAA 4

RESULT 14
US-09-949-016-13886/c
; Sequence 13886, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13886
; LENGTH: 39489
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(39489)
; OTHER INFORMATION: n = A,T,C or G
; US-09-949-016-13886

Query Match          34.0%; Score 122; DB 3; Length 39489;
Best Local Similarity 84.6%; Pred. No. 4.7e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
Db      20196 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTTCCACCATGTTGGTCAGGCTGGTC 20137

QY      61  TCGAACTTCAAACTCAGGTGATCCCGCCGCTCGGCTCCCAAGTGTAGATTACAG 120
Db      20136 TTGAACCTCTGACCTCAGGTGATCTCGCGCTCGGCTCCCAAGTGTGGGATTACAG 20077

QY      121 GCGTGAGCCACCGGCTCAGCTGAGTCCCGCCGCTCGGCTCCCAAGTGTAGATTACAG 162
Db      20076 GCGTGAGCCACCGGCTCGGCTCGGCTCCCAAGTGTAGATTACAGTTTACTTTTCTAAAA 20035

RESULT 15
US-09-949-016-12122/c
; Sequence 12122, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73669
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-73669

Query Match          34.0%; Score 122; DB 3; Length 601;
Best Local Similarity 84.6%; Pred. No. 1.3e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCTCCATGTTGGTCAGGCTGGTC 60
Db      165 CCGGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTTCCACCATGTTGGTCAGGCTGGTC 106
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12122
; LENGTH: 70828
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(70828)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12122

Query Match      34.0%; Score 122; DB 3; Length 70828;
Best Local Similarity 84.6%; Pred. No. 5.7e-21;
Matches 137; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY      1  CCCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
Db      3535  CCCGGCTAATTTTGTATCTTTTAGTAGAGACGGGGTTTCACCATGTTGGTCAGGCTGGTC 3476

QY      61  TCGAACTTCAAACCTCAGGTGATCCGCCGCTCCGCCCTCCAAAAGTCTAGGATTACAG 120
Db      3475  TTGAACTCCTGACCTCAGGTGATCTGCCGCCCTCCGCCCTCCAAAAGTCTGGGATTACAG 3416

QY      121  GCGTAGCCACCGCGCTCAGCCTGGGACACCTTTTCTTACA 162
Db      3415  GCGTAGCCACCGCGCGCCGCCAGTTTTTACTTTTTTCTAAAA 3374
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Job time : 141 secs

GenCore version 5.1.8  
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OM nucleic - nucleic search, using sw model

Run on: May 6, 2006, 12:06:01 ; Search time 575 seconds  
(without alignments)  
5162.968 Million cell updates/sec

Title: US-10-009-579A-5\_COPY\_3188\_3546  
Perfect score: 359  
Sequence: 1 cccggctaatttctatctt.....ttttttatagtgtcttgaa 359

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA Main:\*

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq.\*
- 4: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 6: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	124	34.5	2041	4	US-09-925-065A-72033
3	124	34.5	2041	4	US-09-925-065A-72034
4	124	34.5	2041	4	US-09-925-065A-72035
5	123.8	34.5	438	8	US-10-357-930-13830
6	123.6	34.4	1136	5	US-10-027-632-117277
7	123.6	34.4	1136	6	US-10-027-632-117278
8	123.6	34.4	1136	6	US-10-027-632-117277
9	123.6	34.4	1136	6	US-10-027-632-117278
10	123	34.3	53623	7	US-10-417-375-44
11	122.4	34.1	160361	7	US-10-235-1928-35
12	122	34.0	464	4	US-09-925-065A-591033
13	122	34.0	1031	4	US-09-925-065A-724096
14	122	34.0	321019	8	US-10-741-600-17566
15	122	34.0	329019	8	US-10-388-838-48
16	121.8	33.9	381	3	US-09-867-701-6944
17	121.8	33.9	424	4	US-09-925-065A-47240
18	121.8	33.9	493	9	US-10-933-118-33
19	121.8	33.9	556	9	US-10-450-763-26780
20	121.8	33.9	3470	8	US-10-357-930-25055
21	121.8	33.9	122673	9	US-10-737-082-33
22	121.8	33.9	122673	9	US-10-765-790-33
23	121.6	33.9	571	4	US-09-925-065A-684936

C	24	121.6	33.9	571	4	US-09-925-065A-684938	Sequence 684938,
	25	121.6	33.9	591	5	US-10-027-632-267232	Sequence 267232,
	26	121.6	33.9	591	6	US-10-027-632-267232	Sequence 267232,
C	27	121.4	33.8	29921	8	US-10-719-993-6848	Sequence 6848, Ap
	28	121.4	33.8	106236	8	US-10-741-600-17759	Sequence 17759, A
C	29	121.4	33.8	246144	6	US-10-085-117-326	Sequence 226, App
C	30	121.2	33.8	289	5	US-10-115-278-4	Sequence 4, Appli
C	31	121.2	33.8	289	5	US-10-115-278-4	Sequence 4, Appli
C	32	121.2	33.8	291	6	US-10-762-966-4	Sequence 684937,
C	33	121.2	33.8	571	4	US-09-925-058B-15	Sequence 15, Appl
C	34	121.2	33.8	3202	4	US-09-925-065A-684937	Sequence 684937,
	35	121.2	33.8	3202	4	US-09-925-065A-709882	Sequence 709882,
C	36	120.8	33.6	498	4	US-09-925-065A-704720	Sequence 704720,
C	37	120.8	33.6	754	5	US-10-027-632-26761	Sequence 26761, A
C	38	120.8	33.6	754	6	US-10-027-632-26761	Sequence 26761, A
C	39	120.8	33.6	779	3	US-09-764-855-191	Sequence 191, App
C	40	120.8	33.6	779	3	US-10-072-349-191	Sequence 191, App
C	41	120.8	33.6	67253	9	US-10-737-082-88	Sequence 88, Appl
C	42	120.8	33.6	67253	9	US-10-765-790-88	Sequence 88, Appl
C	43	120.4	33.5	580	4	US-09-925-065A-563601	Sequence 563601,
	44	120.4	33.5	136726	6	US-10-085-117-244	Sequence 244, App
C	45	120.2	33.5	539	4	US-09-925-065A-933530	Sequence 933530,

ALIGNMENTS

RESULT 1

US-10-009-579-5  
; Sequence 5, Application US/10009579  
; Publication No. US20020156041A1  
; GENERAL INFORMATION:  
; APPLICANT: Leij de, Lou F.M.H.  
; APPLICANT: Ruiters, Marcel H.J.  
; APPLICANT: McLaughlin, Pamela M.J.  
; APPLICANT: Harmsen, Martin C.  
; APPLICANT: Molen v.d., Henk  
; APPLICANT: Terpstra, Peter  
; APPLICANT: Dokter, Willem H.A.  
; TITLE OF INVENTION: Non-squamous epithelium-specific transcription  
; FILE REFERENCE: P520750S00  
; CURRENT APPLICATION NUMBER: US/10/009,579  
; CURRENT FILING DATE: 2002-03-26  
; PRIOR APPLICATION NUMBER: EP 00200728.4  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: PCT/NL01/00166  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 4282  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(4282)  
; OTHER INFORMATION: /note="EGF-2 promoter sequence from -3967 to +315"  
US-10-009-579-5

Query Match	100.0%;	Score 359;	DB 5;	Length 4282;
Best Local Similarity	100.0%;	Pred. No. 1.5e-75;		
Matches 359;	Conservative 0;	Mismatches 0;	Gaps 0;	
QY	1	CCCGCTAATTTTGTATCTTTTAGTAGACGCGCTTCTCCATGTTGGTCAGGCTGGTC	60	
Db	3188	CCCGCTAATTTTGTATCTTTTAGTAGACGCGCTTCTCCATGTTGGTCAGGCTGGTC	3247	
QY	61	TCGAATCTCAACCTCAGGTGATCCGCGCTCCGCGCTCCCAAGTCTAGGATTACAG	120	
Db	3248	TGAATCTCAACCTCAGGTGATCCGCGCTCCGCGCTCCCAAGTCTAGGATTACAG	3307	
QY	121	GGGTGAGCCACGCGCTCAGCTGGGAACACCTTTTCTTACATCTTCAAGTGTCAAGAT	180	



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; SEQ ID NO 72035
; LENGTH: 2041
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-72035

Query Match          34.5%; Score 124; DB 4; Length 2041;
Best Local Similarity 64.8%; Pred. No. 2.1e-19;
Matches 184; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 1 CCGGGCTAAATTTGTATCTTTTAGTAGAGACGGCGTTCTCATGTGTGCTCAGGCTGGTC 60
Db 1279 CCGGGCTAAATTTGTATCTTTTAGTAGAGACGGCGTTCTCATGTGTGCTCAGGCTGGTC 1220

QY 61 TGAACCTCAAACTCAGTGATCCCGCCCTCGCCCTCCCAAGTGTAGATTACAG 120
Db 1219 TTGAACCTCAAACTCAGTGATCCCGCCCTCGCCCTCCCAAGTGTAGATTACAG 1160

QY 121 GGTGAGCCACCGCGCTCAGCGTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db 1159 GGTGAGCCACCGCGCTCAGCGTGGGAACACCTTTTCTTATATACAAATAGACAAATTA 1100

QY 181 GCTTATGAAACGAAAAAGAAATTAATTAAGAGTAATTAATAAGAAACACTCAATTTCTTC 240
Db 1099 ATTATGAAAAATAATATGCAATGATGGGGGAGCAGATGGTAGCTCATCATGTTGGAA 1040

QY 241 CCAAGAGCCCAAGATTTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 284
Db 1039 AGTAGAAAAACAGCAGATAAAATATAGACATGTCTATCTATCTATGTT 996

RESULT 5
US-10-357-930-13830
; Sequence 13830, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13830
; LENGTH: 438
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-357-930-13830

Query Match          34.5%; Score 123.8; DB 8; Length 438;
Best Local Similarity 68.8%; Pred. No. 1.2e-19;
Matches 170; Conservative 0; Mismatches 77; Indels 0; Gaps 0;

QY 2 CCGGGCTAAATTTGTATCTTTTAGTAGAGCGGGTTCCTCATGTGTGCTCAGGCTGGTCT 61
Db 1279 CCGGGCTAAATTTGTATCTTTTAGTAGAGCGGGTTCCTCATGTGTGCTCAGGCTGGTCT 1220

Query Match          34.4%; Score 123.6; DB 5; Length 1136;
Best Local Similarity 64.4%; Pred. No. 2e-19;
Matches 183; Conservative 1; Mismatches 100; Indels 0; Gaps 0;

QY 1 CCGGGCTAAATTTGTATCTTTTAGTAGAGACGGCGTTCTCATGTGTGCTCAGGCTGGTC 60
Db 367 CCGGGCTAAATTTGTATCTTTTAGTAGAGACGGCGTTCTCATGTGTGCTCAGGCTGGTC 308

QY 61 TGAACCTCAAACTCAGTGATCCCGCCCTCGCCCTCCCAAGTGTAGATTACAG 120
Db 307 TTGAACCTCAAACTCAGTGATCCCGCCCTCGCCCTCCCAAGTGTAGATTACAG 248

QY 121 GGTGAGCCACCGCGCTCAGCGTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180
Db 247 GGTGAGCCACCGCGCTCAGCGTGGGAACACCTTTTCTTATATACAAATAGAACAAATTA 188

QY 181 GCTTATGAAACGAAAAAGAAATTAATTAAGAGTAATTAATAAGAAACACTCAATTTCTTC 240
Db 187 ATTATGAAAAATAATATGCAATGATGGGGGAGCAGATGGTAGCTCATCTATGTTGGAA 128

QY 241 CCAAGAGACCAAGATTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 284
```





Qy	2	CGGGCTAA	TTTTGTTATCTTTTAGTAGACGGCGTTCTCTCATGTTGGTTCAGGCTGGTCT	61
Db	1	CGGGCTAA	CTTTTAT - TTTTAGTAGACAGGGTTTTCTCCATGTTGGTTCAGGCTGGTCT	59
Qy	62	CGAACTTCAA	ACCTCAGGTGATCCGGCCGGCTCGCGCCTCCCAAAGTCTAGGATTACAGG	121
Db	60	TGAACTCCC	AAACCTCAGGTGATCCGGCCGGCTCGCGCTCCCAAAGTCTGGGATTATAGG	119
Qy	122	CGTAGGCCA	CCGGCTCAGCTCGGGAAACACTTTTCTTATCATCTTCAAGTCTAGAAATG	181
Db	120	CGTAGGCCA	CTCGGCTAGGCTGGAAGCTATTTTTTTTTTAAAGAAACCTGGGAAG	179
Qy	182	CTTTAGAAA	ACGAAAAAGAAATTATTAAGAGTAATTATAAGAAACACTCATTTTCTTCC	241
Db	180	TACATATTA	TGAAGAGATTTCTTAACATTTATTTGTGAAGCTTACTATGTCGAA	239
Qy	242	CAAGAGAGC	CAAGATTTCTTCTTTT	265
Db	240	TCMAACAG	CGCCACTTGACTCATTT	263

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RESULT 13
US-09-925-065A-724096
; Sequence 724096, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108927.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 724096
; LENGTH: 1031
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-724096

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Query Match	34.0%;	Score 122;	DB 4;	Length 1031;
Best Local Similarity	68.0%;	Pred. No. 4.7e-19;		
Matches	170;	Conservative 0;	Mismatches 80;	Indels 0; Gaps 0;
Qy	1	CCCGGCTAAATTTTGTATCTTTTAGTAGAGCGGCTTCCTCCATGTTGGTCAGGCTGTC	60	
Db	338	CCCGGCTAAATTTTGTATTTTAGTAGAGATGCGAGTTTCTCCATGTTGGTCAGGCTGTC	397	
Qy	61	TCGAACCTTCAAACCTCAGGTGATCCGCCGCTCGGCCCTCCAAAGTGTAGGATTACAG	120	
Db	398	TCGAACCTTCGACCTCAGGTAAATCTGTCGGCTTCGGCCCTCCAAAGTGTGGGATTACAG	457	
Qy	121	GCGTGAGCCACGGCTCAGCGCTGGGAACACCTTTTCTTACATCTTCAAAGTGTAGAAT	180	
Db	458	GCGTGAGCAACCATGCCCGGCTTACTTAATTACTTCTATAGAAGTGTCCATCTTCAA	517	
Qy	181	GCTTTAGAAAACGAAAAAGAAATTTTAAGAGTAATTATAAGAAACACTCAITTTCTTC	240	
Db	518	ATTTTTGCTGTTAAATATAAATAAGACAGTGCTTCTTATTGAGCAATTTCAAATGTATC	577	
Qy	241	CCAAGAGAGC	250	
Db	578	CACAGTATGC	587	

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RESULT 14
US-10-741-600-17566/c
; Sequence 17566, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17566
; LENGTH: 321019
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(321019)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-741-600-17566

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Query Match	34.0%;	Score 122;	DB 8;	Length 321019;
Best Local Similarity	76.8%;	Pred. No. 5e-18;		
Matches 149;	Conservative 0;	Mismatches 45;	Indels 0;	Gaps 0;
Qy	2	CCGCCTAAATTTTGTATCTTTTAGTAGAGACGGCGCTTCCTCCATGTTGGTCAGGCTGGTCT	61	
Dd	167635	CTGCTTAATTTTTTGTAATTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGTTT	167576	
Qy	62	CGAACTTCAAACTCAGGTGATCCGCCGCCCTCGGCCTCCCAAAGTGTAGATTACAGG	121	
Dd	167575	CGAACTCTGACCTTCAGGTGATCCGCCGCCCTCAGCCCTCTCAAAGTGTGGGATTACAGG	167516	
Qy	122	CGTCAGCCACC CGCCTCAGCTCGGGACAACCTTTTCTTTTACATCTTCAAGTGTGAGAAATG	181	
Dd	167515	CGTGAGCACCGCGCTCCAGCCAGAGAAGAATTTTCTAACATTTCTAGTTGTCTACAGAC	167456	
Qy	182	CTTATGA AACGAA	195	
b	167455	AATATGAAGCAA	167442	

```

RESULT 15
US-10-388-838-48/c
; Sequence 48, Application US/10388838
; Publication No. US20040180344A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel
; FILE REFERENCE: 529452001600
; CURRENT APPLICATION NUMBER: US/10/388,838
; CURRENT FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 329019
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(329019)
; OTHER INFORMATION: n = A,T,C or G
US-10-388-838-48

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Query Match 34.0%; Score 122; DB 8; Length 323019;  
Best Local Similarity 76.8%; Pred. No. 5.1e-18;  
Matches 149; Conservative 0; Mismatches 45; Indels 0;



Qy	2	CCGGCTAATTTTGTATCTTTTAGTAGAGACGGGTTCTCCCATGTTGGTCAGGCTGGTCT	61
Db	171636	CTGGTTAATTTTGTATTTTTHAGTAGAGATGGGTTTCTCCATGTTGGTCAGGCTGGTTT	171577
Qy	62	CGAACTTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAAGTGTAGGATTACAGG	121
Db	171576	CGAACTCTGACCTCAGGTGATCCGGCCGCTCAGGCTCTCAAAGTGTGGGATTACAGG	171517
Qy	122	CGTAGCCACCGGCTCAGGCTGGGAACACCTTTTCTTACATCTTCAAGTGTAGAAATG	181
Db	171516	CGTAGCCACCGGCTCCAGCCAGAGAAGAAATTTCTAACTTCTAGGTTGTCTACAGAC	171457
Qy	182	CTTATGAAACGAA	195
Db	171456	AATATGAAAGCAAA	171443

Search completed: May 6, 2006, 12:21:06  
Job time : 578 secs

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Query Match 34.5%; Score 124; DB 12; Length 2041;  
Best Local Similarity 64.8%; Pred. No. 5.7e+03;  
Matches 184; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

Qy 1 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTCCCTCCATGTTGGTCAGGCTGGTC 60  
Db 1279 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTTCCACATGCTGGTCAGGCTGGTC 1220

Qy 61 TCGAACTTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 120  
Db 1219 TTGAATCCCACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 1160

Qy 121 GCGTGAGCCACGGCTCAGCTGGACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180  
Db 1159 GCGTGACCCACGGCCCGGCTCACTACCCCTTTTCTATATTACATATGAACAATTA 1100

Qy 181 GCTTATGAAACGAAAAAGAAATTAATTAAGAGTAATTAATAAGAAACACTCATTTTCTTC 240  
Db 1099 ATTATGAAAAAATATATGCGATGATGGGGGAGCAGATGCTAGCTCATCATGTTGGAA 1040

Qy 241 CCAAGAGAGCCAAAGATTTCTTTCTTCCTCTCTTTCTTTTCTTTT 284  
Db 1039 AGTAGAAAACCGACAGATAAAATATAGACATGCTATCTATGTT 996

RESULT 8  
US-10-301-480-786682/c  
; Sequence 786682, Application US/10301480  
; Publication No. US20060057564A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms  
; FILE OF INVENTION: in the Human Genome  
; FILE REFERENCE: 108827.137  
; CURRENT APPLICATION NUMBER: US/10/301,480  
; CURRENT FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: US 10/215,598  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: US 60/311,695  
; PRIOR FILING DATE: 2001-08-10  
; NUMBER OF SEQ ID NOS: 1226818  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 786682  
; LENGTH: 2041  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-301-480-786682

Query Match 34.5%; Score 124; DB 12; Length 2041;  
Best Local Similarity 64.8%; Pred. No. 5.7e+03;  
Matches 184; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

Qy 1 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTCCCTCCATGTTGGTCAGGCTGGTC 60  
Db 1279 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTTCCACATGCTGGTCAGGCTGGTC 1220

Qy 61 TCGAACTTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 120  
Db 1219 TTGAATCCCACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 1160

Qy 121 GCGTGAGCCACGGCTCAGCTGGACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180  
Db 1159 GCGTGACCCACGGCCCGGCTCACTACCCCTTTTCTATATTACATATGAACAATTA 1100

Qy 181 GCTTATGAAACGAAAAAGAAATTAATTAAGAGTAATTAATAAGAAACACTCATTTTCTTC 240  
Db 1099 ATTATGAAAAAATATATGCGATGATGGGGGAGCAGATGCTAGCTCATCATGTTGGAA 1040

Qy 241 CCAAGAGAGCCAAAGATTTCTTTCTTCCTCTCTTTCTTTTCTTTT 284  
Db 1039 AGTAGAAAACCGACAGATAAAATATAGACATGCTATCTATGTT 996

RESULT 9  
US-10-301-480-786683/c  
; Sequence 786683, Application US/10301480  
; Publication No. US20060057564A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms  
; FILE OF INVENTION: in the Human Genome  
; FILE REFERENCE: 108827.137  
; CURRENT APPLICATION NUMBER: US/10/301,480  
; CURRENT FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: US 10/215,598  
; PRIOR FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: US 60/311,695  
; PRIOR FILING DATE: 2001-08-10  
; NUMBER OF SEQ ID NOS: 1226818  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 786683  
; LENGTH: 2041  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-301-480-786683

Query Match 34.5%; Score 124; DB 12; Length 2041;  
Best Local Similarity 64.8%; Pred. No. 5.7e+03;  
Matches 184; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

Qy 1 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTCCCTCCATGTTGGTCAGGCTGGTC 60  
Db 1279 CCCGGCTAAATTTTGTATCTTTTAGTAGAGACGGGGTTTCCACATGCTGGTCAGGCTGGTC 1220

Qy 61 TCGAACTTCAAACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 120  
Db 1219 TTGAATCCCACTCAGGTGATCCGCCCTCGGCTCCCAAGTGTAGGATTACAG 1160

Qy 121 GCGTGAGCCACGGCTCAGCTGGGAAACACCTTTTCTTACATCTTCAAGTGTAGAAAT 180  
Db 1159 GCGTGACCCACGGCCCGGCTCACTACCCCTTTTCTATATTACATATGAACAATTA 1100

Qy 181 GCTTATGAAACGAAAAAGAAATTAATTAAGAGTAATTAATAAGAAACACTCATTTTCTTC 240  
Db 1099 ATTATGAAAAAATATATGCGATGATGGGGGAGCAGATGCTAGCTCATCATGTTGGAA 1040

Qy 241 CCAAGAGAGCCAAAGATTTCTTTCTTCCTCTCTTTCTTTTCTTTT 284  
Db 1039 AGTAGAAAACCGACAGATAAAATATAGACATGCTATCTATGTT 996

RESULT 10  
US-11-121-086-26  
; Sequence 26, Application US/11121086  
; Publication No. US20050266459A1  
; GENERAL INFORMATION:  
; APPLICANT: POULSEN, TIM S.  
; APPLICANT: NIELSEN, KIRSTEN V.  
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES  
; FILE REFERENCE: 09138.6000-00000  
; CURRENT APPLICATION NUMBER: US/11/121,086  
; CURRENT FILING DATE: 2005-05-04  
; PRIOR APPLICATION NUMBER: 60/567,570  
; PRIOR FILING DATE: 2004-05-04  
; NUMBER OF SEQ ID NOS: 107  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 26  
; LENGTH: 63984  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-121-086-26

Query Match 34.0%; Score 122.2; DB 17; Length 63984;  
Best Local Similarity 90.9%; Pred. No. 6.3e+02;  
Matches 130; Conservative 0; Mismatches 13; Indels 0; Gaps 0;



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Best Local Similarity 76.8%; Pred. No. 2.1e+02;
Matches 149; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

Qy 2 CCGGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTCT 61
Db 167635 CTGGTTAATTTTGTATTTTAGTAGAGATGGGGTTTCTCCATGTTGGTCAGGCTGGT 167576

Qy 62 CGAACTTCAAACCTCAGGTGATCCGCCGCTCCGGCTCCCAAAGTGTCTAGGATTACAG 121
Db 167575 CGAACTCTCGACCTCAGGTGATCCGCCGCTCCCAAAGTGTCTAGGATTACAG 167516

Qy 122 CGTAGCCACCGCGCTCAGCTGGGAACACCTTTCTTACATCTTCAAGTCTAGAAATG 181
Db 167515 CGTAGCCACCGCGCTCCAGGAGAAAGAAATTTCTAACATCTTCTAGGTTGTCTACAGAC 167456

Qy 182 CTTATGAAACGAA 195
Db 167455 AATATGAAAGCAAA 167442
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RESULT 14
US-09-925-065A-47240
; Sequence 47240, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47240
; LENGTH: 424
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-47240
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```
Query Match 33.9%; Score 121.8; DB 7; Length 424;
Best Local Similarity 84.9%; Pred. No. 1.8e+04;
Matches 135; Conservative 1; Mismatches 23; Indels 0; Gaps 0;

Qy 1 CCCGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
Db 56 CCCAGCTAATTTTGTATTTTAGTAGAGACGGGGTTTCTCCATGTTGTCAGGCTGGTC 115

Qy 61 TCGAACCTTCAAACCTCAGGTGATCCGCCGCTCCCAAAGTGTCTAGGATTACAG 120
Db 116 TTGAACCTCTGACCTCAGGTGATCCACCTTGGCTCCCAAAGTGTCTAGGATTACAG 175

Qy 121 GCGTGAGCCACCGCGCTCAGCTGGGAACACCTTTTCTT 159
Db 176 GCATGAGCCACCGCGCTGGCTGGATCTGTTTTTATT 214
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RESULT 15
US-10-301-480-148478
; Sequence 148478, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
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; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148478
; LENGTH: 424
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-301-480-148478
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Query Match 33.9%; Score 121.8; DB 11; Length 424;
Best Local Similarity 84.9%; Pred. No. 1.8e+04;
Matches 135; Conservative 1; Mismatches 23; Indels 0; Gaps 0;

Qy 1 CCCGCTAATTTTGTATCTTTTAGTAGAGACGGCGTTCCTCCATGTTGGTCAGGCTGGTC 60
Db 56 CCCAGCTAATTTTGTATTTTAGTAGAGACGGGGTTTCTCCATGTTGTCAGGCTGGTC 115

Qy 61 TCGAACCTTCAAACCTCAGGTGATCCGCCGCTCCCAAAGTGTCTAGGATTACAG 120
Db 116 TTGAACCTCTGACCTCAGGTGATCCACCTTGGCTCCCAAAGTGTCTAGGATTACAG 175

Qy 121 GCGTGAGCCACCGCGCTCAGCTGGGAACACCTTTTCTT 159
Db 176 GCATGAGCCACCGCGCTGGCTGGATCTGTTTTTATT 214
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Job time : 425 secs